DELHI TRANSCO LIMITED.

(A Govt. of NCT of Delhi Undertaking)

STATE LOAD DESPATCH CENTER

REGD. OFFICE : SHAKTI SADAN, KOTLA MARG, NEW DELHI-110002

SLDC Building, 33kV Minto Road Grid Sub-Station, New Delhi-110002

Annual Report
2010-11

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1 INTRODUCTION

Delhi Transco Limited is the State Transmission Utility of the National Capital Territory of Delhi. It is responsible for transmission of power at 220KV and 400KV level, besides up gradation operation and maintenance of EHV Network as per system requirements.

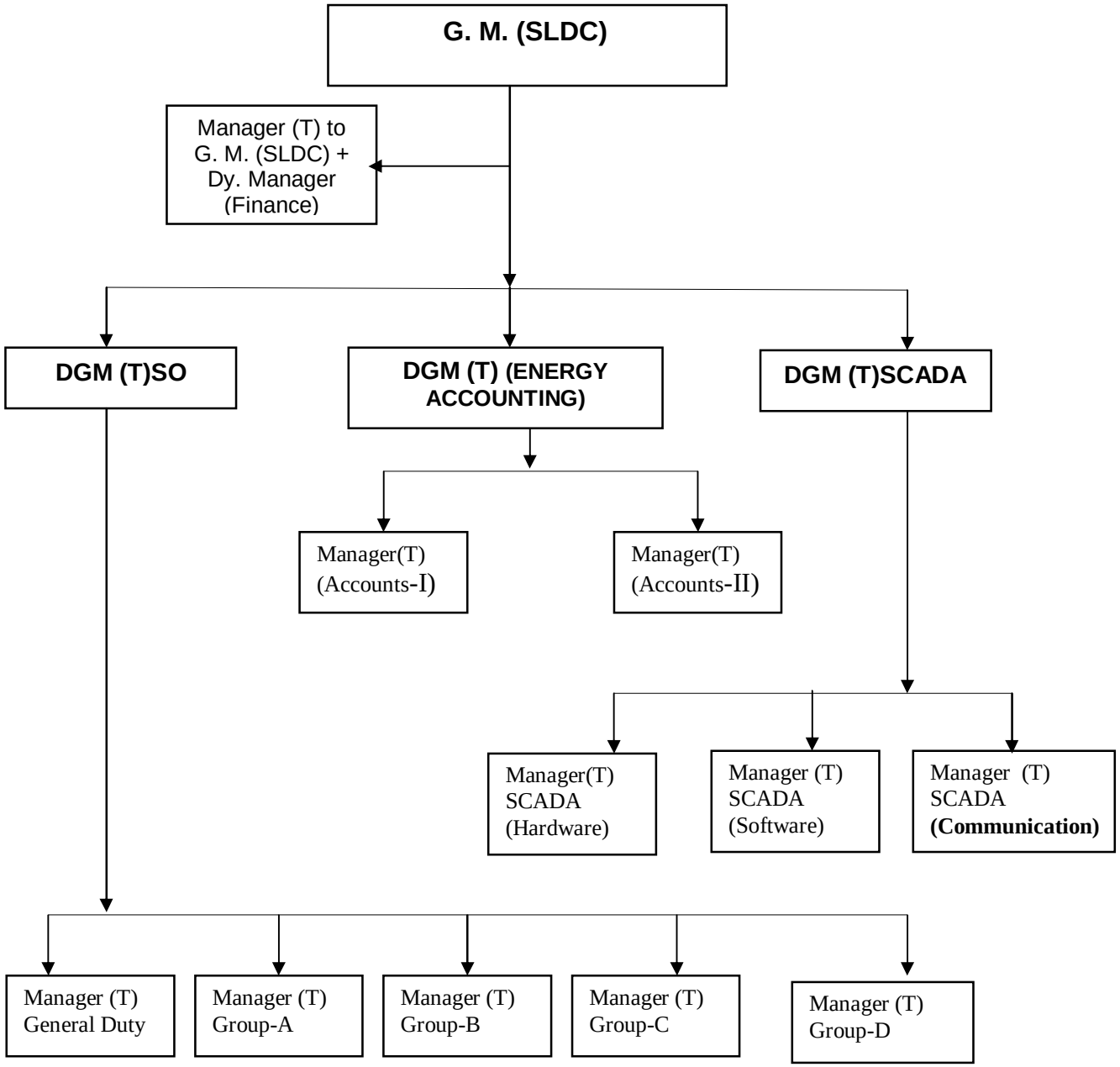
After the enactment of Electricity Act 2003, a new department under the name and style of **State Load Despatch Centre (SLDC)** under Delhi Transco Limited was created, as an Apex body to ensure integrated operation of the power system in Delhi. Earlier the department was part of O&M Department of Delhi Transco Ltd / Delhi Vidyut Board. SLDC Delhi started its function on the First of January 2004. SLDC is responsible for the real time Load Despatch function, O&M of SCADA System and Energy Accounting.

It's mission is to facilitate intra and inter state transfer of power with Responsibility, Security and Economy on sound commercial principles.

2 LICENSEES OPERATING IN DELHI POWER SYSTEM

1)	DELHI TRANSCO LTD.	:	TRANSMISSION LICENSEE (STU, DELHI)
2)	INDRAPRASTHA POWER GENERATING COMPANY LTD.	:	GENERATING LICENSEE
3)	PRAGATI POWER CORPORATION LTD.	:	GENERATING LICENSEE
4)	BSES RAJDHANI POWER LTD.	:	DISTRIBUTION LICENSEE
5)	BSES YAMUNA POWER LTD.	:	DISTRIBUTION LICENSEE
6)	NORTH DELHI POWER LTD.	:	DISTRIBUTION LICENSEE
7)	NEW DELHI MUNICIPAL COUNCIL	:	DEEMED DISTRIBUTION LICENSEE
8)	MILITARY ENGINEERING SERVICE	:	DEEMED DISTRIBUTION LICENSEE

3 ORGANISATIONAL SETUP OF SLDC DEPARTMENT



4 Functions of various circles of SLDC

i) System Operation
ii) SCADA Division
iii) Energy Accounting

4.1 System Operation

System Operation Circle is mainly responsible for techno-economic scheduling and dispatch of electricity within the NCT of Delhi in accordance with the contracts entered into with the licensees or the generating companies operating in Delhi.

The System Operation Division monitors grid operations, exercise supervision and control over the intra-state transmission system and carry out the real time operation of grid control and dispatch of electricity within Delhi through secure and economic operations of the State Grid in accordance with the Grid standards and the State Grid Code.

The responsibility for implementation of these procedures lies with the Managers (System Operation) General Shift as well as in Manager (System Operation) shifts round the clock under the overall supervision and control of Dy.G.M.(S.O).

4.2 Supervisory Control and Data Acquisition (SCADA)

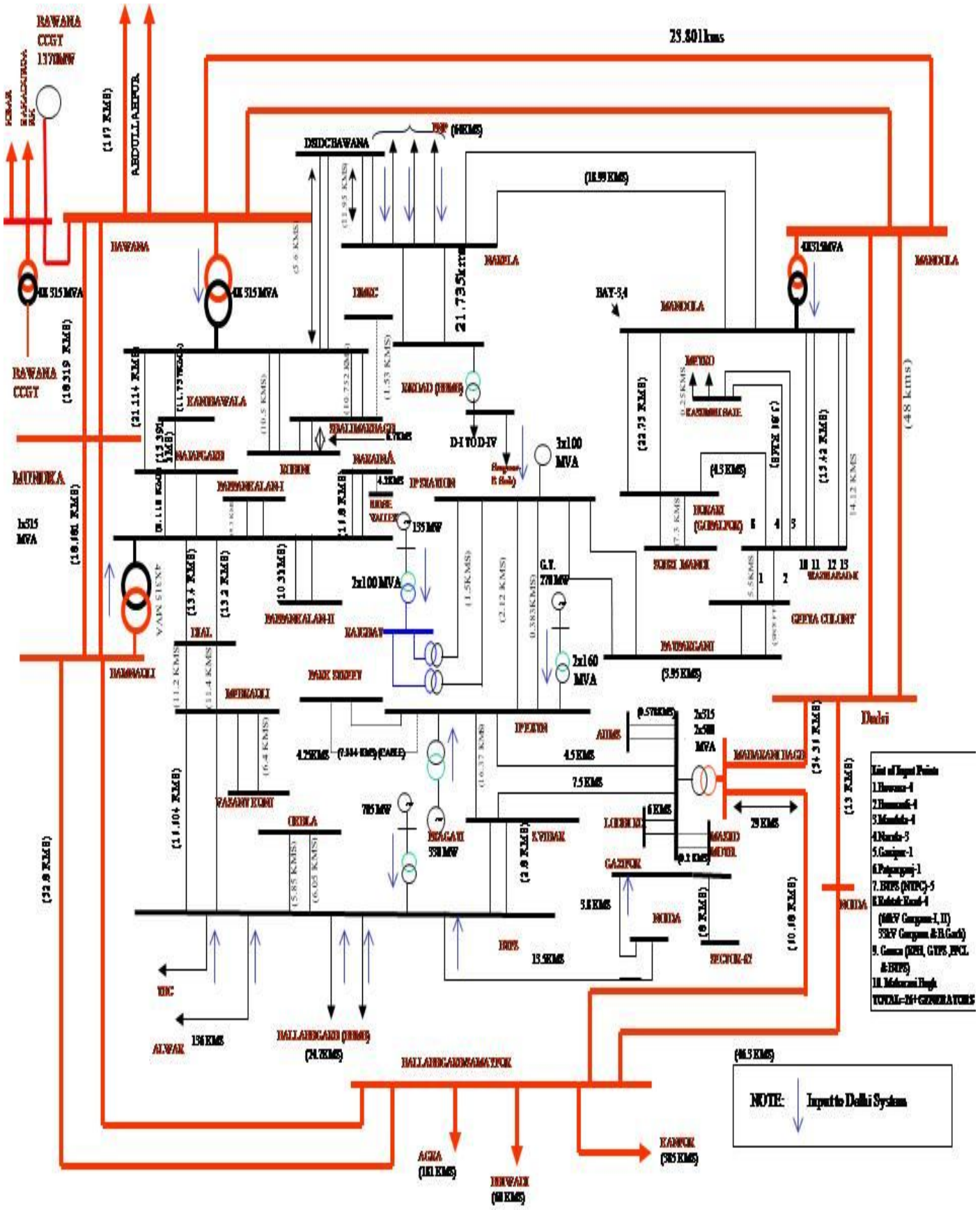
SLDC has a state of art Load despatch centre having SCADA (Supervisor Control And Data Acquisition System) for retrieving information from generating stations and grid sub stations consisting of analog data (like Mega Watt, Voltage, Current, MVar) and digital status of various elements (like Circuit Breaker, Isolator etc.) for real time operation of grid, enabling it to operate safely, securely and economically.

The data from sub station is received through an existing communication ring comprising of OPGW, Microwave and PLCC links. For indicating this data on control room monitors, the hardware and communication links at sub stations are maintained round the clock by the hardware and PLCC sub division of SCADA. The software sub division of SCADA has developed in-house softwares for various activities. Recently scheduling software as per ABT, energy accounting and the transmission system availability have been developed and are in use.

4.3 Energy Accounting

The circle is to undertake the accounting of the quantity of electricity transmitted through the state grid as envisaged in the Electricity Act. This includes the preparation of State Energy Accounts indicating Availability, Scheduled Generation, Plant Load Factor computation, Open Cycle Operation of Gas Turbines etc. in respect of Generating Stations within Delhi. It has to prepare weekly UI Accounts as per Intrastate UI bills and Reactive Energy transactions. At present, this circle's responsibilities are being discharged by System Operation circle.

4.4 Single Line Diagram of Delhi Power System



5 MAJOR ACTIVITIES OF SLDC DURING 2010-11.

In the second phase of power reforms undertaken in Delhi, the power purchase agreements executed by DESU / DVB / DTL have been reassigned to Distribution Licensees / Deemed Distribution Licensees from 01.04.2007. Subsequently, Intrastate ABT has also been introduced in Delhi w.e.f. 01.04.2007 which is first in the country. Delhi State Electricity Regulatory Commission has subsequently come out with Delhi Grid code (DGC) notified in official Gezette on 22.04.2008. Delhi Grid Code envisages Grid Coordination Committee whose responsibilities are :-

The Grid Coordination Committee shall be responsible for the following matters namely -

(a) facilitating the implementation of these Regulations and the procedures developed under the provisions of these Regulations;

(b) assessing and recommending remedial measures for issues that might arise during the course of implementation of provisions of these Regulations and the procedures developed under the provisions of these Regulations;

(c) review of the DGC, in accordance with the provisions of the Act and these Regulations;

(d) analyse any major grid disturbance after its occurrence,

(e) examining problems raised by the Users, and

(f) investigate in case any Beneficiary is indulging in unfair gaming or collusion after getting reported from SLDC.

(g) review of the complete statement of the State UI and the State Reactive Energy account tabled by the SLDC through its Commercial Committee (a ub-committee of GCC); and

(h) such other matters as may be directed by the Commission from time to time.

Deputy General Manager (System Operation) is the Convener of the GCC. GCC further formed various Sub-Committees whose responsibilities are detailed hereunder:-

a) Operation Co-Ordination Sub-Committee (OCC)

b) Commercial Sub-Committee (CC)

c) Protection Sub-Committee (PC)

d) System Study Sub-Committee

5.1 OPERATION CO-ORDINATION SUB-COMMITTEE (OCC)

Functions and Responsibilities :

Operation Co-ordination Committee (OCC) is responsible for

- Settle all issues related to operation of the Delhi / Regional grid viz. reviewing the schedule v/s. actual generation of various power stations drawn up in the previous month;
- estimating availability of power and energy from each power station and demand of each licensee for the current and next month;
- drawing up coordinated maintenance schedule for generating units and transmission network;
- reviewing operational discipline and its norms to be observed by constituents;
- reviewing the operation of Automatic Under-Frequency Relays;
- discussing system occurrences, if any, during the previous month ;
- reviewing the status of implementation of the recommendations of the Inquiry Committees;
- monitoring / reviewing violation of provisions of IEGC/DGC related to grid operation;
- discussing / reviewing measures for ensuring economic grid operation including optimization of energy transfer with other constituents;
- examining possibility of optimizing intra state energy exchanges;
- discussing optimization of energy transfer with other states; and
- any other matter referred by the GCC.

5.2 COMMERCIAL SUB-COMMITTEE (CC):

Functions and Responsibilities :

Commercial Sub-Committee(CC) is responsible for

- all commercial related issues viz. energy accounting ;
- schemes required for inclusion in the Bulk Power Supply Agreements ;
- requirement of power from the new projects ;
- installation of special energy meters and its cost sharing, etc.;
- metering aspects;
- reviewing of the payments towards UI charges ;
- treatment of transmission losses;
- commercial declaration of lines / substation and Generating units;
- commercial issues in intra state exchange of power ;
- issues concerning settlement of payments among constituents, if any, etc. and ;
- any other matter referred by the GCC.

Auditing Commercial Committee shall audit the State Energy Accounts, Intra State UI Accounts and Inter discom Energy Transfer Account & Reactive Pool Accounts.

5.3 PROTECTION SUB-COMMITTEE (PC)

Functions and Responsibilities :

Protection Sub-Committee (PC) is responsible for

- all power system protection related issues viz. analysis of system disturbances in the state;
- review of protective relaying schemes ;
- relay co-ordination ;
- islanding schemes;
- automatic under frequency load shedding schemes;
- review of the implementation of recommendations made by the Inquiry Committee of the grid disturbance in the state / region concerning the above matters, etc.;
- and any other matter referred by the GCC.

5.4 SYSTEM STUDY SUB-COMMITTEE:

Functions and Responsibilities

System Study Sub-Committee entrusted with the work to carry out following system studies

- Studies for assessment of the quantum of capacitors required in the state taking into account the expected additions in the generation and transmission systems and the low voltage conditions in the system. The study shall be correlated with that of capacitor requirement study of being carried out at Regional level at NRPC.
- Studies for review of area wise reactive compensation requirement
- Operational load flow studies as & when required, for peak conditions off peak conditions etc.
- Short-circuit studies as and when required.
- Transient stability studies for major events like grid disturbances or other issues periodically or as and when requested by the constituent(s).
- System studies related to transmission constraints.
- Studies specific to high / low voltage conditions with specific reference to reactors or capacitors operation / requirement.
- Identification of requirement of reactors as and when required
- Co-relation of protection related issues from Studies as and when required
- To draw out the contingency plan of Delhi Power System.
- Any other technical study referred by the GCC.

The above said Sub-Committee meets periodically to transact business as envisaged in their formation.

The Apex Committee, Grid Coordination met once during the year. The details of various decisions taken in the meeting are as under :-

S. No.	Date of meeting	Discussions and Decision on the issue(s)
1	25.10.2010	1) All Distribution Licensees were requested to install capacitors as indicated to them to avoid load shedding due to low voltage. DERC was also requested to expedite the investment approval proposed by Discoms for installation of Capacitors and allow the Licensees to install capacitors upto 11kV level as per NRPC stipulations as effective monitoring and ensuring of their operation below 11kV level is not feasible as 11kV and above. **2) Provision of Spare Capacity** GCC approved Delhi's Operational Coordination Committee proposal for having one hot reserve at every voltage level i.e. 440/220kV 315MVA ICT, 220/66kV 100MVA Tx, 220/33kV 100MVA Tx, 66/33kV 30MVA Tx, 66/11kV 20MVA Tx and 33/11kV 20/16MVA Tx. In addition to this, GCC advised to have one 220/66kV 160MVA transformer also to meet any eventuality. 3) GCC approved the proposal of NRPC to implement Special Protection Scheme (SPS) to safeguard the tripping of 400/220kV ICTs at Mandola, Bawana, Bamnauli and Maharani Bagh with slight amendment of tripping of 220/66kV 100MVA transformers instead of 220kV Maharani Bagh – Sarita Vihar Ckt. as the tripping may cause islanding of GT and Pragati units and their collapse and further aggravating the over-loading of existing Transformers at 400kV Maharanibagh. SPS at Mandola and Maharai Bagh is to be inmplemnted by CTU - PGCIL. **4) Implementation of State of the Art Load Management Scheme** GCC advised all Distribution Licensees to implement State of the Load Management Scheme as stipulated under Clause 5.4.2(d) of IEGC and advised to monitor the implementation of the scheme in monthly OCC meeting in DTL. 5 GCC approved the amendments proposed in the Delhi Grid Code as stipulated in the Clause 6.3 of Delhi Grid Code. 6) **Deductions made by NDPL in Wheeling Charges bill** GCC considered the position and decided that since NDPL is making the payment in full without any default and LC is only a back up payment security mechanism and the amount of LC established by NDPL was short by only of a meagre amount, they are eligible for rebate from Sept. 2009 if the payment is made within the stipulated time for entitlement of rebate though they are not maintaining the required quantum of LC amount as per the provision of BPTA. This should be considered as a special first and last case of this nature, not to be quoted by any other utility for similar cases. 7) **Payment of NRLDC / NLDC Charges on behalf of buyers by Delhi SLDC** GCC ratified the decision taken in the on 27.04.2010 in which it was decided that Delhi SLDC shall collect RLDC / SLDC Charges from Discoms and Genearating companies and remit the same to NRLDC

S. No.	Date of meeting	Discussions and Decision on the issue(s)
		8) Reactive Energy billing GCC decided that DTL shall continue rasing bills on Discoms for reactive charges on monthly basis. The rates shall be 6Ps/kVARh for the voltage bands prescribed in the IEGC for the month of April 2010 and 10Ps/kVARh from May 2010 onwards in line with NRPC Accounts. **9) Incentive based System Availability of Delhi Transco Ltd. for 2009-10**. GCC approved the computation of Transmission System Availability of Delhi Transco Ltd for 2009-10 as 98.39% for computation of incentive. 10) GCC ratified the decisions take in the meeting held on 19.08.2010, 08.09.2010 and 11.10.2010 regarding Scheduling and Accounting Procedure of Bawan CCGT, Jhajjar STPS and Rithala GT of NDPL. The scheduling of Bawana CCGT would be done by Delhi SLDC, Scheduling of Jhajjar TPS would be done by NRLDC and the scheduling of Rithala GT is the responsibility of ALDC of NDPL being the embedded generation.

In addition to the above, there are number of coordination meetings held in SLDC to resolve various issues. The details are as under :-

S. No.	**Date of meeting**	**Discussions and Decision on the issue(s)**
1	06.04.2010	Director (Operations), DTL chaired the meeting. The progress of installation of additional capacitors reviewed. The Distribution Licensees were advised to put under frequency relays as decided in NRPC forum. The accounting of energy being generated from Renewable Energy Sources has been decided as under :- i. ABT Meters at generation points will be installed by the Distribution utility, installing the Renewable energy sources. The meters shall be jointly tested and sealed by DTL and the utility. ii. Metering Deptt. of DTL will download the data from these meters weekly as being done for all other boundary meters and downloaded data will be provided to SLDC. iii. Since, as per CERC Regulations, all the renewable energy power plants are 'MUST RUN" plants, the scheduling is to be done on post facto basis as per the actual generation. iv. No transmission losses or transmission charges will be applicable and actual ex-bus generation will be considered as schedule and actual energy.

S. No.	Date of meeting	Discussions and Decision on the issue(s)
		v)**Energy accounting of Renewable Energy shall be done as under :** a) **<u>Generating Station installed by the Distribution Utility in its own area</u>** - Energy generated from these plants will not be considered in the UI calculation. However, SLDC will indicate the energy generated from these sources in the monthly State Energy Account as per the downloaded data of DTL, once the data of entire month is received. b) **<u>Generating Station installed by the Distribution Utility in other Distribution Utility's area</u>** – The energy made available in 15 minutes time block would be adjusted as energy available to the distribution utility from these sources and accordingly added in the scheduled energy. The same quantum of energy would be added to the actual energy of the distribution utility, in whose area the plant have installed, to arrive the drawl of the utility from the grid. This schedule and actual energy will be considered in the UI Bill accounting. These adjustments would be done on post facto basis. The above mentioned procedure is applicable only for the renewable energy generating sources installed by the distribution utilities or renewable energy purchased by distribution utility from third party and not for the 'Roof Top Solar Plants' to be installed by the consumers.
2	27.04.2010	Director (Operations), DTL chaired the meeting. The methodology of collection and disbursement of NRLDC / NLDC charges by Delhi SLDC has been decided.
3	21.05.2010	Director (Operations), DTL chaired the meeting. The methodology of implementation of new UI Regime implemented at Regional level w.e.f. 03.05.2010 at Intrastate level has been decied.
4	13.07.2010	Director (Operations), DTL chaired the meeting. The issues regarding implementation of Intrastate Open Access in Delhi have been discussed. It was decided to approach DERC for rectification certain issues involved in the present Intrastate Open Access Regulatins to avoid gaming. It was also decided to draw out UI account of IP Station and amount should be retained without adjustment as in the case of Inter Regional links at RPC level as IP Station is not generating any power but the allocation of 1MW from RPH for meeting the auxiliary requirement of IP. This methodology would be implemented from 03.05.2010 (from the date of UI accounts are pending for want of decision of DERC regarding implemtation of new UI Regulation of CERC at Intrastate level in Delhi).

S. No.	Date of meeting	Discussions and Decision on the issue(s)
5	19.08.2010	Director (Operations), DTL chaired the meeting. Issues regarding scheduling of upcoming Bawana CCGT were discussed. It was decided that auxiliary needs of Bawana CCGT switch yard wold be treated as UI transaction without any adjustment and imposition of additional UI charges. The data connectivity of Bawana CCGT was decided to be taken as deposit work and completed by SLDC.
6	08.09.2010	Director (Operations), DTL chaired the meeting. The allocation of power to beneficiaries of Bawana CCGT was finalized. The scheduling of infirm power of Bawana CCGT was finalized. Minimum scheduling requirement limit of Bawana CCGT was decided as 75% on combined cycle mode. SLDC Charges of Delhi was decided not to be shared by Punjab and Haryana as per the provisions of Electricity Act 2003 and SLDC Fees & Charges Regulaton of DERC notified on 18.10.2007.
7	11.10.2010	Director (Operations), DTL chaired the meeting. It was decided that for scheduling and other accounting purposes, 10% of the capacity of Bawana CCGT would be treated as merchant power. Metering system of Bawana CCGT has been decided. The transmission losses for Delhi discoms would be taken the prevailing Intrastate Transmission Losses. Scheduling of Rithala power has been decided to be done by ALDC NDPL being the embedded generation of distribution licensee. Scheduling of Jhajjar to be done by NRLDC.

6 SALIENT FEATURES OF DELHI POWER SYSTEM

Sr. No.	Features	2009-10	2010-11
1	**Effective Generation Capacity within Delhi in MW**		
	Rithala	--	73
	Rajghat Power House	135	135
	Gas Turbine	270	270
	Pragati Power Corporation Ltd.	330	330
	Badapur Thermal Power Station	705	705
	Total	1440	1513
2	**Maximum Unrestricted Demand (MW)**	**4502**	**4809**
	Date	29.06.2009	24.06.10
	Time	15:30:00	15:29:24
3	**Peak Demand met (MW)**	**4408**	**4720**
	Date	08.07.09	01.07.2010
	Time	16:12:49	16:10:2010
4	Peak Availability (MW)	3989	5136
5	Shortage (-) / Surplus (+) in MW	(-)419	(+)416
6	Percentage Shortage (-) / Surplus (+)	(-)9.51	(+)8.81
7	Maximum Energy Consume in a day (Mus)	89.266	89.725
8	Energy Consumed during the year	**23358**	**24437**
9	**Load Shedding in Mus**		
A)	Due to Grid Restrictions		
i)	Under Frequency Relay Operations	8.424	9.767
ii)	Load Shedding by		
	NDPL	10.025	4.916
	BRPL	64.108	1.778
	BYPL	16.101	0.588
	NDMC	0.000	0.015
	MES	0.000	0.000
iii)	Due to Transmission Constraints in Central Sector System	8.490	7.297
	Total due to Grid Restriction	**107.148**	**17.064**
B)	Due to Constraints in System & in Mus		
	DTL	17.386	25.708
	NDPL	43.003	7.815
	BRPL	11.156	13.835
	BYPL	3.535	6.454
	NDMC	0.000	1.577
	MES	0.000	0.000
	Other Agencies	0.222	3.363
	Total	**75.302**	**58.752**
11	**Total Load Shedding in MUs**	**182.45**	**75.816**
12	**Load shedding in percentage of Energy Consumption**	**0.77**	**0.31**

Note

i) IP Station has been desynchronized w.e.f. 31.10.2010

ii) Capacity of BTPS Unit-I, II & III has been derated from 95MW to 90MW.

iii) Capacity STG of Gas Turbine has been derated from 34MW to 30MW

7. PERFORMANCE OF GENERATING STATIONS WITHIN DELHI DURING YEAR 2010-11

Power Station	Effective Capacity (MW)	Actual Generation In MUs	%age Availability	% PLF
Rithala CCTG	73	16.945	Scheduling responsibility by ALDC, NDPL	
Rajghat TPS	135	684.362	75.98	66.96
Gas Turbine	270	1322.150	81.91	58.65
PPCL	330	2267.833	86.31	80.44
BTPS	705	4175.060	90.17	74.45
Bawana CCGT	213	16.94498	-	-
Total	**1726**	**8483.29498**		

Note :

1 Rithala CCGT Unit-1, II & STG declared on Commercial Operation on 05.02.2011, 05.02.2011 and on 04.09.2011 respectively

2 One GT of Bawana CCGT (213MW capacity) has been synchronized on 04.10.2010 and its generation is under UI.

8. DETAILS OF OUTAGES OF GENERATING STATIONS WITHIN DELHI FOR 2010-11

(A) RPH STATION

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	**67.5**	02.04.10	01.00	02.04.10	01.43	Boiler drum level low
		02.04.10	14.50	02.04.10	16.27	Tripped alongwtih trippings of associated transmission lines.
		11.04.10	22.13	11.04.10	23.08	Electrical Problem
		17.04.10	00.56	26.06.10	11.53	Planned shut-down for over-hauling of generator.
		26.06.10	12.56	26.06.10	14.25	Furnace pressure very low.
		27.06.10	14.28	05.07.10	00.50	Drum level low.
		10.07.10	15.45	10.07.10	20.02	Due to power loss.
		12.07.10	20.05	13.07.10	06.06	Turbine trip
		13.07.10	12.02	13.07.10	13.41	Flame failure
		13.07.10	18.33	13.07.10	20.21	Tripped along wtih trippings of associated transmission lines.
		15.07.10	10.39	19.07.10	13.14	Auxiliary transformer tripped.
		24.07.10	20.23	26.07.10	09.58	Boiler Tube Leakage
		31.07.10	12.25	31.07.10	14.07	Boiler trip.
		01.08.10	07.30	03.08.10	05.25	Furnace pressure very low.
		03.08.10	16.04	03.08.10	17.50	Loss of oil fuels
		08.08.10	07.28	08.08.10	08.10	Flame failure
		22.08.10	00.03	23.08.10	15.28	Flame failure
		25.08.10	03.00	29.08.10	08.25	Ash formed in coal bunker
		30.08.10	11.00	30.08.10	11.02	Flame failure
		09.09.10	20.45	02.09.10	21.10	Boiler tripped
		04.09.10	02.15	04.09.10	10.23	Due to tripping of bus bar
		05.09.10	18.07	07.09.10	02.47	Reserve shut-down
		08.09.10	13.09	08.09.10	22.42	Flame failure
		09.09.10	09.40	09.09.10	11.10	Drum level low
		16.09.10	04.02	18.10.10	06.47	Failure of boiler tubes and due to Commonwealth Games.
		21.10.10	13:05	21.10.10	13:48	Flame failure
		21.10.10	19.57	22.10.10	13.32	Boiler drum trip
		23.10.10	21.40	26.10.10	01.44	No coal flow
		26.10.10	00.24	27.10.10	02.22	Boiler drum trip
		05.11.10	08.44	08.11.10	04.02	Boiler Tube Leakage
		17.11.10	13.13	20.11.10	17.00	Boiler Tube Leakage
		03.12.10	23.19	08.12.10	23.42	Boiler Tube Leakage
		08.12.10	23.50	13.12.10	04.40	Boiler Tube Leakage
		28.12.10	14.02	29.12.10	19.52	Boiler Tube Leakage
		04.02.11	15.40	07.02.11	19.15	Boiler Tube Leakage
		12.02.11	11.13	12.02.11	11.30	Flame failure
		23.02.11	15.33	05.03.11	00.20	Boiler Tube Leakage
		01.03.11	00.00	03.03.11	00.20	Boiler Tube Leakage
		17.03.11	00.35	17.03.11	01.37	Furnance flame failure
		17.03.11	03.22	17.03.11	06.58	Drum level low
2	**67.5**	02.04.10	14.55	02.04.10	16.45	Tripped along wtih trippings of associated transmission lines.
		20.04.10	13.42	21.04.10	17.12	Low furnace pressure
		28.04.10	18.39	28.04.10	19.23	Low vacuum

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
2	**67.5**	01.05.10	18.15	01.05.10	20.52	Tripped along wtih trippings of associated transmission lines.
		05.05.10	06.45	05.05.10	08.12	Furnace pressure low
		08.05.10	17.28	08.05.10	18.29	Drum level low
		09.05.10	03.48	09.05.10	05.17	Flame failure
		26.05.10	12.25	26.05.10	14.20	33kV bus differential operated
		28.05.10	05.55	29.05.10	07.17	Drum level low
		02.06.10	06.25	02.06.10	07.24	Electrical problem
		13.06.10	15.42	13.06.10	18.39	Tripped along wtih trippings of associated transmission lines.
		22.06.10	07.48	22.06.10	09.09	Furnace pressure low
		07.07.10	10.55	07.07.10	12.08	Flame failure
		10.07.10	15.45	10.07.10	20.01	Tripped along wtih trippings of associated transmission lines.
		19.07.10	14.39	19.07.10	15.19	Turbine tripped
		20.07.10	18.12	20.07.10	19.57	Turbine tripped.
		21.07.10	04.45	21.07.10	05.47	Turbine tripped.
		25.07.10	12.16	25.07.10	15.10	Under frequency relay operated
		11.08.10	11.24	11.08.10	11.54	High furnace pressure
		22.08.10	09.37	22.08.10	19.11	Coal flow very low
		03.09.10	19.37	04.09.10	01.01	Due to bus bar tripping
		05.09.10	10.25	18.10.10	06.34	Boiler tube leakage. Machines could not be synchronized due to CWG
		18.10.10	09.42	18.10.10	10.37	Boiler drum tripped
		20.10.10	15.54	21.07.10	22.00	Turbine tripped
		24.10.10	14.38	24.10.10	21.24	Turbine tripped
		28.10.10	00.15	31.10.10	19.20	Boiler tube leakage
		13.11.10	16.42	18.11.10	17.25	Electrical Problem
		12.12.10	09.59	12.12.10	10.45	Electrical Problem
		15.02.11	19.22	15.02.11	20.08	Turbine vibration high
		19.02.11	15.48	19.02.11	16.44	Drum level low
		20.02.11	00.20	23.02.11	14.50	Boiler Tube Leakage
		21.03.11	06.42	21.03.11	08.03	Boiler problem

(B) Gas Turbine

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	**30**	11.05.10	17.58	11.05.10	20.07	FSNL due to tripping of 160 MVA Txr. Buchholz and E/F
		15.05.10	14.02	15.04.10	15.34	Shut-down to attend the hot spot
		28.05.10	05.22	28.05.10	22.15	Due to heavy blast in 11KV Breaker
		30.05.10	12.55	31.05.10	11.12	Stopped due to high under drawal at high frequency.
		07.06.10	09.22	08.06.10	21.08	
		10.06.10	00.10	10.06.10	08.07	Due to overloading of 160 MVA Tx
		01.07.10	15.12	07.01.10	15.54	Gas fuel hydraulic trip pressure low
		04.07.10	21.31	05.07.10	13.28	Tripped due to tripping of 160 MVA TX at IP End and after that machine not taken on bar due high frequency
		06.07.10	07.37	06.07.10	09.15	Tripped due to tripping of 160 MVA TX at Pragati

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	30	08.07.10	07.15	08.07.10	13.00	Gas fuel hydraulic trip pressure low
		08.07.10	13.00	08.07.10	21.10	Stopped due to high under drawal at high frequency.
		12.07.10	11.02	12.07.10	12.05	Gas fuel hydraulic trip pressure low
		12.07.10	20.15	14.07.10	02.42	Stopped due to high under drawal at high frequency.
		14.07.10	06.04	14.07.10	06.55	Gas fuel hydraulic trip pressure low
		14.07.10	19.42	14.07.10	20.40	Gas fuel hydraulic trip pressure low
		18.07.10	07.24	18.07.10	14.19	Due to shut-down of 160 MVA Tx.
		20.07.10	15.31	21.07.10	07.52	Stopped due to high under drawal at high frequency.
		22.07.10	18.50	24.07.10	14.55	
		25.07.10	00.02	29.07.10	11.27	
		31.07.10	11.00	12.08.10	11.27	
		12.08.10	18.55	14.08.10	22.18	C&I Problem. After clearance from C&I GT not taken on load due to swapping of gas to PPCL
		15.08.10	11.08	28.08.10	23.10	Stopped due to high under drawal at high freq. Machine could not sync-hronized after 15:30hrs. as voltage not build up more than 9.5KV.
		03.09.10	09.02	30.09.10	14.22	Stopped due to high under drawal at high frequency.
		04.10.10	06.05	06.10.10	10.55	
		11.10.10	12.15	11.10.10	13.25	Problem in emergency push button switch
		26.10.10	00.02	26.11.10	10.50	Stopped due to high under drawal at high frequency
		26.11.10	12.05	29.11.10	05.50	
		30.11.10	00.15	30.11.10	06.55	
		09.12.10	00.04	09.12.10	06.25	
		11.12.10	00.05	11.12.10	06.24	
		14.12.10	00.04	14.12.10	06.20	
		14.12.10	00.04	14.12.10	06.19	
		20.12.10	21.05	21.12.10	06.26	
		23.12.10	00.02	23.12.10	05.52	
		28.12.10	18.10	29.12.10	23.59	Machine stopped to avoid overloading of 160 MVA Txr-2.
		30.12.10	02.35	30.12.10	06.40	Stopped due to high under drawal at high frequency
		31.12.10	21.46	31.12.10	23.59	
		01.01.11	0.00	01.01.11	20.30	
		03.01.11	00.05	05.01.11	11.45	
		08.01.11	14.45	08.01.11	15.26	Machine tripped as on jerk due to tripping of 160MVA Tx-I & II
		08.01.11	17.18	08.01.11	19.58	Unit tripped due to tripping of 160 MVA Tx-I & II while energization of 66 KV Akshardham Ckt.
		20.01.11	00.02	22.01.11	06.23	Stopped due to high under drawal at high frequency
		22.01.11	17.50	03.02.11	23.59	
		04.02.11	00.00	25.03.11	16:35	Machine taken for Major Inspection
		25.03.11	19:00	25.03.11	23:59	Machine stopped for inspection
		26.03.11	00:00	28.03.11	18:45	Stopped as available on available in open cycle mode
		28.03.11	20:35	29.03.11	14:30	
		29.03.11	22:15	30.03.11	13:40	
		31.03.11	15:10	11.04.11	20.25	

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
2	30	11.05.10	17.58	11.05.10	20.30	FSNL due to tripping of 160 MVA Txr. Buchholz and E/F
		30.05.10	13.45	31.05.10	09.19	Machine stopped to avoid over loading of 160MVA Tx as one 100 MVA Tx was under replacement with 160MVA Tx at IP Extension
		07.06.10	14.19	07.06.10	18.55	
		20.06.10	08.35	20.06.10	11.02	Tripped without any alarm
		04.07.10	21.31	05.07.10	07.47	Tripped due to tripping of 160 MVA TX at IP End and after that machine not taken on bar due to high freq.
		06.07.10	07.23	06.07.10	10.03	Tripped due to tripping of 160 MVA TX at IP End.
		08.07.10	14.58	08.07.10	19.32	
		12.07.10	21.12	13.07.10	21.39	Stopped due to high under drawal at high frequency.
		18.07.10	07.58	18.07.10	12.26	Due to shut-down of 160 MVA Tx.
		20.07.10	13.01	21.07.10	04.13	Stopped due to high under drawal at high frequency.
		22.07.10	21.47	24.07.10	07.35	
		25.07.10	01.50	29.07.10	13.18	
		31.07.10	11.00	09.08.10	12.31	
		11.08.10	18.25	12.08.10	11.20	
		12.08.10	12.48	12.08.10	19.45	
		13.08.10	12.30	28.08.10	15.15	Swapping of gas to PPCL.
		01.09.10	22.33	01.10.10	16.00	Stopped due to low demand and high frequency.
		01.10.10	16.00	01.10.10	18.40	Oil leakage from load gear box
		26.10.10	00.02	29.11.10	06.10	Stopped due to low demand and high frequency.
		14.12.10	14.40	14.12.10	15.20	Electrical problem
		16.12.10	00.05	16.12.10	07.12	Stopped due to low demand and high frequency.
		24.12.10	11.55	25.12.10	16.05	Due to tripping of 160MVA Tx-i
		04.01.11	00.05	04.01.11	19.12	Machine stopped as generation on Spot R-LNG is not required by SLDC
		08.01.11	14.45	08.01.11	15.26	Machine tripped as on jerk due to tripping of 160MVA Tx-I & II
		08.01.11	17.18	08.01.11	18.20	Unit tripped due to tripping of 160 MVA Tx-I & II while energization of 66 KV Akshardham Ckt.
		08.01.11	21.05	08.01.11	22.24	
		22.01.11	17.50	08.02.11	12.20	Machine tripped in the jerk caused due to tripping of STG#1.
		08.02.11	20.32	09.02.11	11.10	Machine is available on open cycle and on Spot R-LNG
		09.02.11	20.15	10.02.11	12.30	
		14.02.11	16.15	27.02.11	23.59	
		01.03.11	00:00	02.03.11	12:12	
		02.03.11	18.07	14.03.11	17.30	
		15.03.11	00.01	16.03.11	07.55	
		16.03.11	20.45	18.03.11	08.57	
		18.03.11	19.25	23.03.11	14.47	
		24.03.11	00.07	24.03.11	07.17	
		25.03.11	00.02	25.03.11	19.37	
		26.03.11	00.05	26.03.11	19.25	
		27.03.11	00.05	11.04.11	21.37	
3	30	01.05.10	06.05	01.05.10	18.35	Stopped to clean PHE
		28.05.10	10.20	28.05.10	11.27	Tripped on battery under voltage.
		01.06.10	23.55	02.06.10	08.28	To avoid overloading of 160MVA Tx
		04.06.10	12.02	04.06.10	16.04	Condensate level high.

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
3	30	06.06.10	09.42	07.06.10	14.10	To avoid overloading of 160 Mva Tx as one 100MVA Tx was under replacement with 160MVA Tx at IP Extension
		14.06.10	09.24	14.06.10	11.08	
		12.07.10	09.00	12.07.10	14.15	Machine not available due to problem in Diesel Engine of GT
		12.07.10	14.15	14.07.10	10.25	Stopped due to high under drawal at high frequency.
		17.07.10	12.20	19.07.10	15.42	Loss of Excitation.
		20.07.10	15.22	23.07.10	12.01	To regulate the load of Radial feeders as 160MVA Tx tripped on Buchholtz relay. After 19:17 hrs machine not taken on bar due to low demand
		11.08.10	17.55	12.08.10	12.39	Stopped due to high under drawal at high frequency.
		13.08.10	12.32	14.08.10	06.15	Due to swapping of gas to PPCL.
		15.08.10	11.00	15.08.10	17.13	Stopped due to high under drawal at high frequency.
		26.08.10	19.32	27.08.10	07.20	
		02.09.10	00.20	06.09.10	12.01	
		06.09.10	13.54	06.09.10	15.15	Machine tripped on Y-Phase Bus Bar differential relay on BB-3 and BB-4.
		10.09.10	16.04	28.09.10	18.25	Stopped due to high under drawal at high frequency.
		01.10.10	00.35	01.10.10	01.15	Due to problem in CRT
		15.10.10	22.20	19.10.10	23.59	Gas restriction
		25.10.10	14.05	25.10.10	18.44	Gas restriction
		28.10.10	16.41	30.11.10	23.59	Stopped due to high under drawal at high frequency.
		04.12.10	00.05	04.12.10	16.56	
		05.12.10	00.05	05.12.10	05.30	
		17.12.10	00.05	17.12.10	10.03	
		25.12.10	15.30	25.12.10	18.25	
		01.01.11	21.05	03.01.11	05.50	
		06.01.11	16.05	08.01.11	11.21	
		08.01.11	14.31	10.01.11	06.25	
		12.01.11	00.05	12.01.11	05.50	
		13.01.11	02.01	13.01.11	11.31	
		14.01.11	00.02	14.01.11	06.30	
		14.01.11	13.20	14.01.11	14.20	Machine tripped on combined cycle alarm trip relay.
		14.01.11	14.20	15.01.11	09.50	Stopped due to high under drawal at high frequency.
		15.01.11	20.05	16.01.11	13.55	
		17.01.11	07.00	17.01.11	07.25	Came on FSNL due to tripping of both 160 MVA Tx-I #II at Pragati end.
		17.01.11	23.25	18.01.11	11.10	Stopped due to high under drawal at high frequency.
		18.01.11	23.31	19.01.11	07.34	
		31.01.11	07.31	31.01.11	10.15	Machine tripped on high TAD
		02.02.11	06.07	03.02.11	06.21	Due to swapping of gas to PPCL
		10.02.11	21.15	11.02.11	21.07	Machine stopped as available on spot R-LNG.
		20.03.11	10.47	21.03.11	06.40	
		26.03.11	00.05	26.03.11	20.32	
		31.03.11	11.20	31.03.11	14.50	Tripped due to field failure alarm showing on gen. protection panel.
		31.03.11	16.16	31.03.11	18.40	Stopped due to C&I

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
4	30	24.02.10	14.39	24.05.10	15.35	Planned shut-down
		24.05.10	18.02	24.05.10	22.50	Tripped on LTTH high.
		27.05.10	10.35	27.05.10	13.45	Take on FSNL to adjust the load.
		28.05.10	01.10	28.05.10	03.00	Tripped without any alarm.
		29.05.10	03.10	29.05.10	03.45	Tripped without any alarm.
		29.05.10	05.10	29.05.10	05.57	Tripped without any alarm.
		29.05.10	20.25	29.05.10	21.25	Came on FSNL
		03.06.10	14.10	03.06.10	15.30	Generator Stator overheating alarm
		05.06.10	05.46	07.06.10	08.29	To avoid overloading of 160 MVA Tx as one 100MVA Tx was under replacement with 160MVA Tx at IP Extension
		28.06.10	01.10	28.06.10	01.50	Came on FSNL
		29.06.10	14.50	29.06.10	16.10	Tripped without any alarm
		14.07.10	21.31	12.07.10	09.00	Tripped due to tripping of 160 MVA TX at IP End and after that machine not taken on bar due to low demand.
		12.07.10	09.00	12.07.10	18.15	Problem in DC EOP of GT
		12.07.10	18.15	14.07.10	11.33	Stopped due to high under drawal at high frequency.
		14.07.10	11.33	16.07.10	17.25	Due to problem in Mark-VI
		20.07.10	15.35	20.07.10	16.27	Machine came on FSNl due to jerk in the system
		20.07.10	21.01	24.07.10	05.45	Stopped due to high under drawal at high frequency.
		19.08.10	14.39	19.08.10	16.57	Tripped on loss of flame.
		19.08.10	17.35	19.08.10	22.53	Stopped due to high under drawal at high frequency.
		05.09.10	07.50	05.09.10	11.25	Tripped on following alarms lost communication with Controller R,S &T. Field failure alarm appeared on protection panel.
		06.09.10	13.54	06.09.10	14.35	Machine tripped on Y-Phase Bus Bar differential relay on BB-3 &4
		15.09.10	15.10	15.09.10	15.48	Machine came on FSNL due tripping of 160 MVA Tx
		22.09.10	21.11	28.09.10	11.57	Due to low demand and high freq.
		18.10.10	07.30	18.10.10	10.27	Tripped on Generator GAC Electrical Problem alarm
		25.10.10	14.10	29.11.10	19.57	Stopped due to high under drawal at high frequency
		03.12.10	00.01	03.12.10	05.05	
		12.12.10	00.02	12.12.10	06.32	
		17.12.10	00.05	17.12.10	09.48	
		19.12.10	15.35	20.12.10	06.20	
		21.12.10	21.05	22.12.10	06.25	
		08.01.11	14.25	08.01.11	15.27	Machine tripped on heavy jerk due to tripping of 160MVA Tx-I & II
		08.01.11	17.18	08.01.11	18.57	Both the 160MVA Tx tripped while energization of 66KV Akshardham ckt
		08.01.11	21.05	11.01.11	10.37	Machine tripped due to tripping of both the 160 MVA Tx. Later not taken on load due to high frequen
		14.01.11	16.30	17.01.11	20.08	Stopped due to high frequency and low demand
		03.02.11	14.20	03.02.11	15.24	Tripped on high LTTH
		28.02.11	15.01	28.02.11	17.25	C&I Inspection
		04.03.11	13.31	04.03.11	16.25	Machine stopped for changing of battery.
		20.03.11	10.50	21.03.11	05.57	Due to low demand and high freq.
		21.03.11	06.03	21.03.11	11.06	Machine tripped and following alarm appeared 1) IGV open alarm 2) IGV position servo fault .

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
5	30	01.04.10	00.00	01.04.10	01.30	Hydraulic pressure low
		25.04.10	11.32	25.04.10	14.55	To change generator absolute filter.
		07.05.10	18.20	08.05.10	16.35	Stopped due to high frequency.
		01.06.10	20.50	01.06.10	23.16	GT came on FSNL
		03.06.10	01.15	03.06.10	08.09	To avoid overloading of 160 Mva Tx as one 100MVA Tx was under replacement with 160MVA Tx at IP Extension
		03.06.10	20.15	04.06.10	08.33	
		07.06.10	21.43	09.06.10	15.45	
		25.06.10	09.40	25.06.10	15.25	
		26.06.10	00.05	26.06.10	05.56	
		26.06.10	09.50	28.06.10	12.20	
		14.07.10	21.31	14.07.10	22.20	Tripped due to tripping of 160 MVA TX at IP End.
		05.07.10	13.45	08.07.10	10.55	Stopped due to high frequency and low demand
		08.07.10	14.58	08.07.10	20.10	Tripped due to tripping of 160 MVA TX at IP End on Buckholtz relay.
		18.07.10	07.55	18.07.10	12.20	Due to shut-down of 160 MVA Tx.
		20.07.10	15.35	20.07.10	19.18	Machine came on FSNL due to jerk in the system
		21.07.10	09.31	22.07.10	18.46	Stopped due to high frequency and low demand
		31.07.10	11.00	01.08.10	12.57	
		13.08.10	18.25	14.08.10	06.18	Due to swapping of gas to PPCL.
		15.08.10	18.40	17.08.10	16.25	Stopped due to high frequency and low demand
		24.08.10	11.07	01.09.10	23.18	
		06.09.10	13.54	06.09.10	17.45	Machine tripped on Y-Ph Bus Bar differential relay on BB-3 and BB-4.
		08.09.10	09.30	10.09.10	14.55	Stopped due to high frequency and low demand
		15.09.10	15.10	15.09.10	16.12	Machine came on FSNL due tripping of 160 MVA Tx
		28.09.10	15.10	30.09.10	15.14	Stopped due to high frequency and low demand
		15.10.10	09.00	15.10.10	15.45	
		28.10.10	11.30	28.10.10	15.55	
		19.11.10	20.10	19.11.10	22.29	Machine tripped on Battery under voltage alarm
		26.11.10	00.10	26.11.10	02.18	TAD high
		08.12.10	00.02	08.12.10	06.20	Stopped due to high frequency and low demand
		18.12.10	00.05	18.12.10	06.40	
		24.12.10	11.55	24.12.10	12.58	Due to tripping of 160 MVA Tx-1
		25.12.10	16.25	27.12.10	12.35	Stopped due to high frequency and low demand
		27.12.10	23.35	28.12.10	09.35	Machine stopped to avoid overloading of 160 MVA Txr-2.
		29.12.10	00.05	29.12.10	11.31	
		05.01.11	00.05	05.01.11	05.47	Stopped due to high frequency and low demand.
		05.01.11	19.31	06.01.11	09.25	
		06.01.11	16.05	07.01.11	11.20	
		07.01.11	18.03	08.01.11	10.35	
		08.01.11	14.45	08.01.11	18.40	Machine tripped on heavy jerk due to tripping of 160MVA Tx-I & II
		08.01.11	21.05	08.01.11	22.35	Both the 160MVA Tx tripped while energization of 66KV Akshardham ckt

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
5	30	12.01.11	23.32	14.01.11	14.20	Stopped due to high frequency and low demand.
		17.01.11	07.00	17.01.11	07.25	Came on FSNL due to tripping of both 160MVA Tx-I & II at IP Ext
		17.01.11	20.29	18.01.11	11..44	Stopped due to high frequency and low demand.
		02.02.11	20.02	03.02.11	06.44	Due to swapping of gas to PPCL
		12.02.11	00.02	13.02.11	23.58	Machine stopped as available on spot R-LNG
		16.02.11	13.02	16.02.11	19.58	
		23.02.11	04.30	23.02.11	07.58	Machine tripped on high TAD
		27.02.11	08.20	27.02.11	17.45	Stopped due to high frequency and low demand.
		13.03.11	00.02	14.03.11	16.16	Machine stopped as generation on open cycle mode is not required by SLDC
6	30	16.04.10	11.35	16.04.10	17.16	To clean PHE of GT
		05.05.10	09.03	05.05.10	15.32	Stopped for PHE cleaning.
		08.05.10	18.02	10.05.10	09.30	Stopped due to high frequency.
		11.05.10	17.58	11.05.10	20.10	FSNL due to tripping of 160 MVA Txr. Buchholz and E/F
		24.05.10	16.45	24.05.10	21.13	Taken on FSNL to facilitate checking of auto synch. Mode.
		25.05.10	11.00	25.05.10	12.00	
		27.05.10	14.12	27.05.10	14.55	
		28.05.10	05.22	28.05.10	16.10	Due to blast in 11 KV Breaker
		29.05.10	17.42	30.05.10	09.55	Stopped due to high frequency.
		03.06.10	14.42	03.06.10	15.29	Machine came on FSNL due to Combustion trouble and flame detector trouble
		04.06.10	22.32	05.06.10	06.45	To avoid overloading of 160 MVA Tx as one 100MVA Tx was under replacement with 160MVA Tx at IP Extension
		07.06.10	19.55	09.06.10	14.35	
		25.06.10	18.53	28.06.10	18.50	Gas fuel control oil pressure low.
		30.06.10	17.05	30.06.10	18.58	Stopped as required by Prot.n Deptt
		04.07.10	21.31	04.07.10	21.42	Due to tripping of 160 MVA TX at IP End.
		06.07.10	07.37	08.07.10	08.20	Tripped due to tripping of 160 MVA TX at IP End and after that machine not taken on bar due to low demand
		08.07.10	14.58	08.07.10	16.49	Tripped due to tripping of 160 MVA TX at IP End on Buckholtz relay.
		08.07.10	17.25	08.07.10	18.06	Tripped due to tripping of 160 MVA TX at IP End on Buckholtz relay.
		14.07.10	09.32	14.07.10	14.28	To attend hunting in load
		20.07.10	15.35	20.07.10	15.43	Machine came on FSNl due to jerk in the system
		21.07.10	02.27	21.07.10	04.15	Tripped with multiple alarms
		21.07.10	04.15	22.07.10	18.16	Due to low demand and high freq.
		23.07.10	11.20	27.07.10	18.00	Due to smoke from mark VI panel
		27.07.10	18.00	29.07.10	12.17	Stopped due to high frequency and low demand.
		31.07.10	11.00	09.08.10	12.40	
		15.08.10	11.06	17.08.10	15.50	
		19.08.10	21.50	23.08.10	12.25	Due to swapping of gas to PPCL.
		27.08.10	08.25	31.08.10	12.37	Stopped due to high frequency and low demand.
		31.08.10	16.02	01.09.10	18.45	
		06.09.10	13.54	06.09.10	14.44	Machine tripped on Y-Ph Bus Bar differential relay on BB-3 and BB-4.

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
6	30	15.09.10	15.10	15.09.10	16.12	FSNL due tripping of 160 MVA Tx
		18.09.10	12.15	18.09.10	13.40	Due to failure of IO card
		24.09.10	16.45	24.09.10	17.35	Electrical trouble
		28.09.10	19.15	30.09.10	14.20	Stopped due to high frequency and low demand.
		15.10.10	08.00	15.10.10	19.02	
		19.10.10	20.02	25.10.10	13.50	
		19.11.10	22.10	19.11.10	22.55	Due to failure of communicator
		24.11.10	12.58	24.11.10	13.55	Tripped on Numerical Relay faulty relay
		07.12.10	00.05	07.12.10	06.24	Stopped due to high frequency and low demand.
		09.12.10	22.46	10.12.10	06.20	
		13.12.10	00.02	13.12.10	06.30	
		13.12.10	06.30	13.12.10	12.14	Due to AC lube oil pump burnt
		19.12.10	00.02	19.12.10	06.44	Stopped due to high frequency and low demand.
		23.12.10	17.15	24.12.10	06.20	Machine stopped due to problem in GAIL pipeline
		24.12.10	11.55	24.12.10	12.40	Due to tripping of 160 MVA Tx-1
		25.12.10	18.28	28.12.10	13.45	To avoid overloading of 160 MVA Txr-2.
		31.12.10	00.04	31.12.10	09.10	Stopped due to high frequency and low demand.
		05.01.11	19.35	06.01.11	09.55	Stopped due to high frequency and low demand.
		08.01.11	14.45	08.01.11	15.26	Machine tripped on heavy jerk due to tripping of 160MVA Tx-I & II
		08.01.11	17.18	08.01.11	18.30	Both the 160 MVA Tx tripped while energization of 66 KV Akshardham Feeder
		08.01.11	21.05	09.01.11	16.20	
		11.01.11	00.05	11.01.11	05.50	Stopped due to high frequency and low demand
		11.01.11	06.05	11.01.11	08.08	Due to loss of excitation.
		12.01.11	00.05	12.01.11	09.27	Stopped due to high frequency and low demand
		17.01.11	00.02	17.01.11	12.10	
		18.01.11	15.20	19.01.11	07.36	
		19.01.11	14.05	22.01.11	18.28	
		03.02.11	14.35	03.02.11	14.58	Machine tripped on high LTTH.
		07.02.11	23.45	08.02.11	00.15	Machine tripped on high TAD
		14.02.11	00.42	14.02.11	15.35	Machine stopped as available on spot R-LNG
		15.02.11	14.05	15.02.11	15.50	To replace Generator Filter
		16.02.11	13.02	16.02.11	18.25	Stopped due to high frequency and low demand
		27.02.11	08.25	27.02.11	16.32	
		28.03.11	08.35	28.03.11	10.25	
STG 1	30	07.04.10	12.55	07.04.10	17.35	To attend dearater level problem
		12.04.10	11.52	12.04.10	12.32	Lube oil header pressure low
		11.05.10	17.58	11.05.10	21.35	Tripped due to tripping of GT#2.
		19.05.10	23.25	20.05.10	03.25	Failure of supply of Turbine panel
		28.05.10	05.22	28.05.10	15.57	Due to blast in 11 KV Breaker
		30.05.10	13.45	31.05.10	12.46	Stopped due to high frequency.
		07.06.10	14.22	07.06.10	21.35	To avoid overloading of 160MVA Tx as one 100MVA Tx was under replacement with 160MVA Tx at IP Extension

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
STG1	30	29.06.10	15.32	29.06.10	16.50	Tripped without any alarm
		04.07.10	21.31	05.07.10	09.50	Tripped due to tripping of 160 MVA TX at IP End and after that machine not taken on bar due SLDC message to maintain schedule of 80 MW.
		06.07.10	07.23	06.07.10	10.58	Tripped due to tripping of 160 MVA TX at IP End .
		08.07.10	14.58	08.07.10	22.10	
		09.07.10	23.42	10.07.10	01.50	Tripped on Ch-I&II
		10.07.10	02.38	10.07.10	03.17	
		10.07.10	03.25	10.07.10	03.50	
		10.07.10	03.55	10.07.10	04.42	
		07.10.10	18.32	10.07.10	18.48	
		12.07.10	21.12	13.07.10	23.47	Machine stopped as per SLDC message to maintain load of 80 MW
		18.07.10	07.01	18.07.10	14.14	Due to shut-down of 160 MVA Tx.
		20.07.10	15.31	21.07.10	07.50	To regulate the load of Radial feeders as 160 MVA Tx tripped on Buchholtz relay. After 19:17 hrs machine not taken on bar due to low demand
		22.07.10	21.47	24.07.10	08.25	Machine stopped as per SLDC message to maintain load of 80 MW
		24.07.10	17.04	24.07.10	17.32	Due to tripping of 800 KVA Tx
		25.07.10	01.30	29.07.10	17.50	Stopped due to high frequency and low demand.
		31.07.10	11.00	09.08.10	19.12	
		10.08.10	13.26	10.08.10	15.03	Machine tripped as AOP-1A tripped.
		11.08.10	18.25	12.08.10	14.15	Stopped due to high frequency and low demand.
		12.08.10	18.55	12.08.10	21.40	Tripped due to tripping of GT#1.
		13.08.10	12.30	15.08.10	03.40	Due to swapping of gas to PPCL.
		15.08.10	11.08	28.08.10	20.15	Stopped due to high frequency and low demand.
		03.09.10	09.02	30.09.10	21.28	
		04.10.10	06.41	04.10.10	13.28	Low vacuum
		05.10.10	12.48	05.10.10	15.05	Drum level low
		11.10.10	21.12	12.10.10	01.20	Generator shift vibration very high
		26.10.10	00.02	29.11.10	13.05	Stopped due to high frequency and low demand.
		09.12.10	00.04	09.12.10	06.58	HRSG# 1 stopped along with GT due to high frequency and low demand
		11.12.10	00.05	11.12.10	06.50	
		14.12.10	00.04	14.12.10	06.45	
		15.12.10	00.04	15.12.10	06.40	
		16.12.10	00.05	16.12.10	07.35	HRSG-2 stopped along with GT-2 due to high freq .and low demand
		20.12.10	21.05	21.12.10	06.54	HRSG# 1 stopped along with GT-1 due to high freq. and low demand
		23.12.10	00.05	23.12.10	06.20	
		24.12.10	11.55	25.12.10	16.40	Due to tripping of 160 MVA Trf.-1
		30.12.10	02.35	30.12.10	07.10	HRSG# 1 stopped along with GT due to high freq. and low demand
		31.12.10	21.46	31.12.10	23.59	Electrical problem
		01.01.11	00.00	01.01.11	21.05	HRSG# 1 stopped along with GT-1 due to high freq. and low demand

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
STG 1	**30**	03.01.11	00.05	05.01.11	12.10	HRSG# 1 stopped along with GT-1 due to high freq. and low demand
		04.01.11	00.05	04.01.11	21.52	HRSG-2 stopped along with GT-2 due to high freq .and low demand
		08.01.11	14.45	08.01.11	16.45	Due to tripping of 160MVA Tx-I&II
		08.01.11	17.18	08.01.11	18.50	Unit tripped due to tripping of 160MVA Tx-I & II while energizing 66 KV Akshardham feeder
		08.01.11	18.50	08.01.11	20.15	
		08.01.11	21.05	08.01.11	23.23	
		17.01.11	07.00	17.01.11	07.45	Due to tripping of 160MVA Tx-I&II
		22.01.11	17.50	10.02.11	20.35	Unit tripped due to bursting the 'B' Phase bushing of its Unit Tx.
		14.02.11	16.15	18.02.11	20.00	Machine stopped as available on spot R-LNG
		18.02.11	20.00	16.04.11	00.40	Machine stopped to attend the Misc. problems
STG2	**30**	15.04.10	11.15	15.04.10	18.40	To attend leakage in CPH line
		01.05.10	06.05	01.05.10	20.30	Stopped as GT#3 stopped for cleaning of PHE
		11.05.10	14.46	11.05.10	20.34	Stopped due to leakage in SRV.
		17.05.10	19.05	17.05.10	20.55	Due to non availability of the BFPs.
		24.05.10	10.50	26.05.10	22.00	To attend condenser backwashing and other leakages
		28.05.10	05.22	28.05.10	08.25	Due to blast in 11 KV Breaker
		01.06.10	10.23	01.06.10	10.40	Low vacuum due to tripping of CEP
		06.06.10	09.42	07.06.10	12.55	To avoid overloading of 160 Mva Tx as one 100MVA Tx was under replacement with 160MVA Tx at IP Extension
		14.06.10	07.32	14.06.10	15.05	Tripped on CH-I & II
		04.07.10	21.31	12.07.10	09.00	Tripped due to tripping of 160 MVA TX at IP End and after that machine not taken on bar due to low demand
		12.07.10	09.00	12.07.10	14.15	Due to outage of GT# 3 & 4
		12.07.10	14.15	12.07.10	18.15	HRSG# 4 due to outage of GT# 4
		12.07.10	18.15	14.07.10	12.50	Stopped due to high frequency and low demand.
		18.07.10	06.37	18.07.10	13.35	To attend 160 MVA Tx.
		20.07.10	15.22	23.07.10	14.55	To regulate the load of Radial feeders as 160 MVA Transformer tripped on Buchholtz relay. After 19:17 hrs machine not taken on bar due to low demand
		24.07.10	17.04	24.07.10	17.22	Due to tripping of 800 KVA Tx
		26.07.10	08.55	26.07.10	10.46	Low level vacuum
		06.08.10	15.42	08.08.10	16.50	Machine tripped as Both Boiler Tripp alarm appeared on BCD while the drum level of both HRSG were normal.
		17.08.10	12.42	17.08.10	13.10	Machine tripped as both boiler tripped
		19.08.10	15.22	19.08.10	15.50	Failure of DC supply
		05.09.10	7.25	05.09.10	14.45	Machine tripped due to tripping of GT#4
		06.09.10	13.54	06.09.10	16.15	Machine tripped on Y-Ph Bus Bar differential relay on BB-3 and BB-4.

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
STG2	**30**	07.09.10	09.55	07.09.10	10.28	C&I Problem
		07.09.10	19.15	07.09.10	21.32	Machine tripped due to jerk.
		15.09.10	15.10	15.09.10	17.09	Machine tripped due to tripping of 160 MVA Tx
		22.09.10	21.11	28.09.10	14.55	Stopped due to high frequency.
		18.10.10	07.30	18.10.10	11.66	Machine tripped due to tripping of GT-4
		25.10.10	14.10	25.10.10	20.17	Stopped due to high frequency and low demand.
		28.10.10	16.41	29.11.10	23.45	
		03.12.10	00.01	03.12.10	05.00	HRSG-4 stopped along with GT-4 due to high freq and low demand.
		04.12.10	00.05	04.12.10	17.45	HRSG-3 stopped alongwith GT-3 due to high freq. and low demand.
		05.12.10	00.05	05.12.10	06.20	
		08.12.10	11.31	08.12.10	11.51	Generator RJB vibration very high
		12.12.10	00.02	12.12.10	06.55	HRSG-4 stopped along with GT-4 due to high freq and low demand.
		17.12.10	00.05	17.12.10	12.35	Machine stopped due to high frequency and low demand.
		19.12.10	15.35	20.12.10	06.55	HRSG-4 stopped along with GT-4 due to high freq and low demand.
		21.12.10	21.05	22.12.10	06.50	
		25.12.10	15.30	25.12.10	18.55	HRSG-3 stopped alongwith GT-3 due to high freq. and low demand.
		01.01.11	21.05	03.01.11	06.20	
		06.01.11	16.05	08.01.11	14.45	
		08.01.11	14.45	08.01.11	20.00	Machine tripped as heavy jerk observed in control room & 160 MVA Txr no.2 tripped and after simultaneously 160 MVA Tx-1 also tripped.
		08.01.11	20.00	08.01.11	21.05	Both the 160 MVA Tx tripped while energization of 66 KV Akshardham Feeder
		08.01.11	21.05	10.01.11	10.59	HRSG-4 stopped alongwith GT-4 due to high freq. and low demand.
		10.01.11	10.59	11.01.11	11.13	
		12.01.11	00.05	12.01.11	06.20	HRSG-3 stopped alongwith GT-3 due to high freq. and low demand.
		13.01.11	02.01	13.01.11	11.59	
		14.01.11	00.02	14.01.11	06.58	
		14.01.11	13.20	14.01.11	14.20	Machine tripped as all the parameters disappeared.
		14.01.11	14.20	15.01.11	13.05	Due to low demand and high freq.
		15.01.11	20.05	16.01.11	15.35	Due to low demand and high freq.
		17.01.11	07.00	17.01.11	08.22	Unit tripped due to tripping of 160MVA Tx-I & II
		03.02.11	13.02	03.02.11	16.10	Stopped to attend ACW line
		05.02.11	17.01	05.02.11	17.40	Due to tripping of both the boilers
		17.02.11	12.15	17.02.11	19.18	Tripped on Channel-I & II
		20.03.11	10.50	21.03.11	10.40	Machine stopped due to low demand and high frequency

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
STG3	**30**	02.04.10	03.25	07.04.10	05.28	Axial shift alarm appeared
		07.04.10	07.35	07.04.10	07.58	Lube oil pressure low
		09.07.10	21.20	09.04.10	22.32	Plunger coil trip alarm
		29.04.10	11.06	29.04.10	15.15	Plunger coil trip alarm
		05.05.10	09.05	05.05.10	17.32	Stopped to attend various leakages
		11.05.10	17.58	11.05.10	20.34	FSNL due to tripping of 160 MVA Txr. Buchholz and E/F
		18.05.10	07.05	18.05.10	17.58	Stopped to attend Various leakages
		18.05.10	18.34	18.05.10	18.55	Tripped on Control oil header pressure very low. Both the Boiler trip alarm also appeared.
		18.05.10	19.35	18.05.10	22.25	
		28.05.10	05.22	28.05.10	10.58	Due to blast in 11 KV Breaker
		29.05.10	17.42	30.05.10	13.37	Stopped due to high frequency.
		07.06.10	21.43	09.06.10	17.25	To avoid overloading of 160 MVA Tx as 100MVA Tx under replace ment with 160MVA Tx at IP Ext.
		25.06.10	18.53	28.06.10	23.59	Tripped due to tripping of GT#6
		04.07.10	21.31	14.07.10	23.10	Tripped due to tripping of 160 MVA TX at IP End.
		06.07.10	07.23	08.07.10	11.13	Tripped due to tripping of 160 MVA TX at IP End and after that machine not taken on bar due to low demand
		08.07.10	12.20	08.07.10	21.28	Due to oil leakages observe in ESV.
		10.07.10	18.48	10.07.10	19.50	Due to disappearance of Parameters
		18.07.10	06.37	18.07.10	13.55	Due to shut-down of 160 MVA Tx.
		20.07.10	15.07	20.07.10	20.53	Due to tripping of 160 MVA Tx
		21.07.10	09.31	22.07.10	21.15	Stopped due to high frequency and low demand.
		31.07.10	11.00	09.08.10	17.05	
		15.08.10	18.40	17.08.10	23.59	
		20.08.10	17.10	20.08.10	19.25	Machine tripped on low vacuum.
		21.08.10	09.52	21.08.10	11.12	Machine tripped on low vacuum.
		27.08.10	08.25	01.09.10	22.25	Stopped due to high frequency and low demand.
		06.09.10	13.54	06.09.10	16.52	Machine tripped on Y-Ph Bus Bar differential relay on BB-3 and BB-4.
		07.09.10	19.19	07.09.10	20.53	Machine tripped due to jerk.
		07.09.10	22.00	07.09.10	23.15	Machine tripped on false alarm of Hot well level very high though the level was normal.
		08.09.10	12.41	09.09.10	00.46	
		15.09.10	15.10	15.09.10	17.15	Machine tripped due to tripping of 160 MVA Tx
		28.09.10	19.15	30.09.10	16.50	Gas restriction
		15.10.10	09.00	15.10.10	17.26	
		20.10.10	06.45	20.10.10	08.57	Due to tripping of LOP of Boiler Feed Pump
		19.11.10	22.10	19.11.10	23.10	Tripped along with tripping of GT-6
		24.11.10	00.42	24.11.10	01.28	Low vacuum
		07.12.10	00.05	07.12.10	07.05	HRSG-6 along with GT-6 due to low demand and high frequency
		08.12.10	00.02	08.12.10	06.55	HRSG-5 along with GT-5 due to low demand and high freq.
		09.12.10	22.46	10.12.10	06.48	HRSG-6 along with GT-6 due to low demand and high frequency
		13.12.10	00.02	13.12.10	06.30	

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
STG3	**30**	13.12.10	06.30	13.12.10	12.35	HRSG-6 could not be taken on load due to problem in GT-6
		14.12.10	02.37	14.12.10	04.17	Hot well level high
		18.12.10	00.05	18.12.10	07.20	HRSG-5 along with GT-5 due to low demand and high freq.
		19.12.10	00.02	19.12.10	07.10	HRSG-6 along with GT-6 due to low demand and high frequency
		22.12.10	15.40	22.12.10	16.03	Shaft vibration very high.
		23.12.10	17.15	24.12.10	06.50	HRSG-6 stopped alongwith GT-6 due to problem in GAIL pipe line
		24.12.10	11.55	24.12.10	13.38	Due to tripping of 160 MVA Trf-I
		25.12.10	16.25	25.12.10	18.28	HRSG-5 along with GT-5 due to low demand and high freq.
		25.12.10	18.28	27.12.10	16.05	
		27.12.10	23.35	28.12.10	11.25	Machine stopped to avoid overloading of 160 MVA Txr-2.
		31.12.10	00.04	31.12.10	14.30	HRSG-6 stopped alongwith GT-6 due to low demand and high freq.
		05.01.11	00.05	05.01.11	06.23	HRSG-5 stopped alongwith GT-5 due to low demand and high freq.
		05.01.11	19.35	06.01.11	10.50	Due to low demand and high freq.
		06.01.11	16.05	07.01.11	12.10	HRSG-5 stopped alongwith GT-5 due to low demand and high freq.
		07.01.11	18.03	08.01.11	11.20	
		08.01.11	14.45	08.01.11	17.07	Machine tripped due to tripping of 160MVA Tx-I & II
		08.01.11	17.18	08.01.11	18.55	Unit tripped due to tripping of 160MVA Tx-I & II while energization of 66 KV Akshardham Feeder
		08.01.11	21.05	09.01.11	00.10	
		09.01.11	00.10	09.01.11	16.50	
		11.01.11	00.05	11.01.11	06.05	HRSG-6 stopped alongwith GT-6 due to low demand and high freq.
		11.01.11	06.05	11.01.11	08.30	
		12.01.11	00.05	12.01.11	09.45	
		12.01.11	23.32	14.01.11	14.55	HRSG# 5 stopped along with GT-5 due to low demand
		17.01.11	07.00	17.01.11	08.42	Due to tripping of 160MVA Tx-I&II
		27.01.11	04.07	27.01.11	04.31	Due to disappearance of hot well parameters
		03.02.11	13.02	03.02.11	16.12	To attend ACW line
		15.02.11	14.05	15.02.11	15.12	Tripped on Channel-I & II
		16.02.11	13.05	16.02.11	19.58	To attend various leakages
		27.02.11	08.25	27.02.11	19.22	Due to low demand and high freq.
		28.03.11	03.31	28.03.11	09.20	Machine tripped on turbine over speed false alarm.

(C) PRAGATI STATION

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	**104**	01.05.10	18.16	01.05.10	20.10	Tripped alongwtih trippings of associated transmission lines.
		23.05.10	09.45	23.05.10	15.41	Due to shut-down of 220kV Bus-II at IP Extension.
		09.06.10	17.38	09.06.10	22.56	Internal fault.
		13.06.10	15.38	13.06.10	16.55	Tripped alongwtih trippings of associated transmission lines.
		04.07.10	21.26	04.07.10	22.20	
		10.07.10	15.47	10.07.10	16.56	
		13.07.10	18.29	13.07.10	19.10	
		27.07.10	18.50	28.07.10	04.18	Due to firing in underneath bearings.
		01.08.10	09.00	02.08.10	12.18	Due to low demand and high frequency
		15.08.10	00.00	16.08.10	09.12	
		03.09.10	16.59	03.09.10	18.12	Problem in generator transformer
		03.09.10	23.30	04.09.10	02.40	Problem in turbine
		16.09.10	15.12	16.09.10	16.16	Tripped alongwtih trippings of associated transmission lines.
		26.09.10	14.35	26.09.10	15.44	
		11.10.10	04.18	11.10.10	09.48	Boiler feed pump tripped.
		14.10.10	17.10	14.10.10	17.44	Boiler feed pump tripped.
		26.12.10	11.00	26.12.10	23.30	Tripped alongwtih trippings of associated transmission lines.
		27.12.10	22.12	27.12.10	22.49	Internal problem
		27.12.10	23.38	28.12.10	05.14	Internal problem
		04.03.11	23.00	07.03.11	09.38	Due to high frequency and low demand
		09.03.11	04.06	09.03.11	07.57	Internal fault
		09.03.11	16.59	09.03.11	17.44	Internal fault
		12.03.11	03.00	14.03.11	07.08	Due to high frequency and low demand
		14.03.11	22.00	17.03.11	11.30	
		17.03.11	11.30	03.04.11	11.37	Stopped for maintenance work
2	104	09.06.10	15.41	09.06.10	16.50	Mark-V fuse tripped.
		03.09.10	16.59	03.09.10	19.43	Problem in generator transformer
		05.09.10	11.30	06.09.10	09.20	Reserve shut-down due to low demand
		16.09.10	15.12	16.09.10	15.59	Tripped alongwtih trippings of associated transmission lines.
		19.09.10	10.00	20.09.10	10.16	Due to high frequency and low demand
		19.10.10	21.08	20.10.10	01.55	Internal fault
		20.10.10	02.28	08.11.10	13.02	Fault in oil pressure pump
		14.12.10	14.41	14.12.10	15.20	Tripped alongwtih trippings of associated transmission lines.
		27.12.10	07.00	27.12.10	20.35	Due to problem in air filter
		27.12.10	23.38	28.12.10	05.14	Internal problem
		08.01.11	14.44	18.01.11	15.37	Bus -1 getting dead
		17.01.11	06.23	17.01.11	07.19	Tripped due to tripping of associated transmission lines
		22.01.11	16.00	23.01.11	18.42	Baroscapic test
		27.01.11	08.41	27.01.11	09.45	Internal fault
		07.02.11	20.47	07.02.11	23.25	Tripped due to tripping of associated transmission lines
		02.03.11	00.01	14.03.11	18.10	Due to major overhauling
		19.03.11	06.12	21.03.11	11.40	Stopped due to high frequency and low demand
		21.03.11	16.25	21.03.11	19.26	
		26.03.11	23.31	27.03.11	00.00	Internal fault
		27.03.11	12.04	27.03.11	15.35	Internal fault

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
STG	**122**	02.04.10	14.50	02.04.10	16.34	Tripped due to tripping of associated transmission lines
		01.05.10	18.16	01.05.10	19.50	
		12.05.10	15.53	12.05.10	17.00	
		14.05.10	15.32	14.05.10	16.27	Tripped due to tripping of associated transmission lines
		13.06.10	15.38	13.06.10	17.40	
		01.07.10	17.09	01.07.10	18.10	Internal fault
		04.07.10	21.26	04.07.10	23.00	Tripped due to tripping of associated transmission lines
		10.07.10	15.47	10.07.10	16.43	
		13.07.10	18.29	13.07.10	19.25	
		17.07.10	13.30	17.07.10	17.19	Exitor vibration problem
		19.07.10	15.05	19.07.10	19.13	
		03.09.10	16.59	03.9.10	19.05	Problem in generator transformer
		16.09.10	15.22	16.09.10	17.34	Tripped due to tripping of associated transmission lines
		28.09.10	14.35	26.09.10	15.35	
		11.10.10	04.18	11.10.10	06.28	Boiler feed pump tripped
		14.10.10	17.10	14.10.10	17.58	Boiler feed pump tripped
		29.10.10	14.45	29.10.10	15.34	Water level low in drum
		29.11.10	07.12	29.11.10	08.28	Internal fault
		23.12.10	10.05	23.12.10	11.12	Tripped due to tripping of associated transmission lines
		08.01.11	14.44	08.01.11	15.37	Bus-I getting dead
		08.01.11	17.59	08.01.11	18.58	CW pump tripped
		11.01.11	09.59	11.01.11	10.39	Internal fault (CW pump tripped)
		17.01.11	09.59	17.01.11	10.44	Internal fault (CW pump tripped)
		27.01.11	05.59	27.01.11	07.00	Internal fault
		07.02.11	20.47	07.02.11	23.25	Tripped due to tripping of associated transmission lines
		02.03.11	00.14	11.04.11	23.46	Major overhauling of machine

(D) BADARPUR THERMAL POWER STATION

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	95	05.04.10	22.04	06.04.10	21.40	Maintenance work
		23.04.10	16.09	23.04.10	21.50	Electrical fault
		01.05.10	19.09	02.05.10	20.04	Due to high freq. and low demand
		11.05.10	21.37	12.05.10	12.53	Electrical problem
		25.05.10	03.50	11.06.10	14.30	Axial shift high
		13.07.10	12.02	13.07.10	15.00	Flame failure
		27.07.10	12.27	28.07.10	19.40	Generation back down due to low demand and high frequency.
		21.08.10	14.24	21.04.10	17.24	
		23.09.10	06.20	23.09.10	08.56	Boiler problem
		26.09.10	09.23	26.09.10	10.39	Boiler problem
		23.11.10	17.42	04.12.10	19.45	Generation back down due to low demand and high frequency.
2	95	07.05.10	19.45	10.05.10	08.16	Due to high freq. and low demand
		20.05.10	11.35	22.05.10	22.40	Boiler Tube Leakage
		05.06.10	14.31	07.06.10	07.55	Generation back down due to low demand and high frequency.
		09.07.10	11.40	09.07.10	13.00	Electrical fault
		20.08.10	18.22	28.08.10	17.39	Generation back down due to low demand and high frequency.
		02.09.10	18.47	02.09.10	20.04	Due to tripping of associated transmission lines
		09.09.10	00.19	15.09.10	02.52	Reserve shut-down due to high frequency.
		06.10.10	04.18	08.10.10	07.10	Electrical problem
		12.11.10	18.20	12.11.10	20.58	Tripped on jerk due to tripping of 220kV BTPS – Alwar Ckt.
		23.11.10	20.39	05.12.10	07.45	Generation back down due to low demand and high frequency
		29.01.11	23.00	31.01.11	00.44	Boiler problem
		31.01.11	11.55	31.01.11	18.13	Bus problem
3	95	03.04.10	00.18	03.04.10	05.20	Protection failure
		09.04.10	12.50	09.04.10	16.17	Vacuum low
		30.04.10	02.04	26.05.10	22.55	Annual maintenance
		29.06.10	22.56	03.07.10	19.02	Boiler Tube Leakage
		31.07.10	17.30	31.07.10	20.46	FD fan tripped
		25.08.10	19.34	28.08.10	11.15	Generation back down due to low demand and high frequency.
		26.09.10	02.23	29.09.10	03.05	
		12.11.10	18.20	12.11.10	21.22	Tripped on jerk due to tripping of 220kV BTPS – Alwar Ckt
		11.01.11	07.26	16.01.11	13.04	Boiler tube leakage
		26.01.11	08.54	27.01.11	08.55	Boiler tube leakage
		08.02.11	13.20	08.02.11	14.57	Generator problem
		27.03.11	01.27	27.03.11	22.43	Safety valve leakage
4	210	23.04.10	07.02	24.04.10	19.55	Water valve leakage
		04.05.10	12.29	05.05.10	13.39	Boiler Tube Leakage
		12.05.10	23.25	13.05.10	18.32	Boiler Tube Leakage
		17.05.10	00.28	17.05.10	17.50	Boiler Tube Leakage
		19.05.10	12.43	20.05.10	03.02	Boiler Tube Leakage

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
4	210	21.05.10	08.00	22.05.10	05.56	Boiler Tube Leakage
		22.05.10	06.57	22.05.10	07.49	Electrical Problem
		27.05.10	20.33	31.05.10	12.14	Boiler Tube Leakage
		07.06.10	16.20	14.6.10	12.52	Generation back down due to heavy under drawal and high frequency
		19.06.10	19.43	20.06.10	19.10	Boiler Tube Leakage
		04.07.10	12.29	26.08.10	12.19	Planned shut-down for maintenance
		30.08.10	12.15	01.09.10	08.19	Boiler Tube Leakage
		10.09.10	18.03	10.09.10	21.18	Cooling system problem
		15.09.10	23.46	22.09.10	03.00	Generation back down due to high frequency and low demand.
		29.09.10	04.30	01.10.10	20.09	
		06.10.10	09.44	07.10.10	10.50	Boiler Tube Leakage
		07.10.10	19.50	08.10.10	12.37	Boiler Tube Leakage
		08.10.10	14.08	19.10.10	16.12	Boiler Tube Leakage
		20.10.10	22.10	21.10.10	15.50	Internal Fault
		27.10.10	23.50	23.11.10	15.40	Generation back down due to high frequency and low demand.
		01.12.10	21.35	02.12.10	15.05	Boiler Tube Leakage
		05.12.10	13.50	09.12.10	07.04	Generation back down due to high frequency and low demand.
		16.12.10	13.47	17.12.10	12.32	Boiler Tube Leakage
		26.12.10	11.43	27.12.10	06.15	Boiler Tube Leakage
		28.12.10	07.09	01.01.11	05.08	Boiler Tube Leakage
		02.01.11	04.30	03.01.11	11.04	Boiler Tube Leakage
		08.01.11	06.40	09.01.11	02.45	Boiler Tube Leakage
		12.01.11	09.22	12.01.11	21.55	Boiler Tube Leakage
		19.01.11	06.31	20.01.11	06.32	Boiler Tube Leakage
		28.01.11	19.46	29.01.11	11.10	Boiler Tube Leakage
		30.01.11	09.22	03.02.11	05.08	Boiler Tube Leakage
5	210	02.04.10	16.29	03.04.10	20.22	Boiler tube leakage
		17.04.10	22.30	18.04.10	12.20	Boiler tube leakage
		09.05.10	17.40	09.05.10	19.48	Tripped on jerk due to tripping of 220kV Ballabhgarh – BTPS Ckts and 220kV BTPS – Alwar Ckt.
		13.05.10	17.58	13.05.10	20.11	Furnace problem
		14.07.10	04.50	14.07.10	07.35	Electrical problem
		05.09.10	12.42	08.09.10	20.05	Reserve shut-down due to high freq.
		15.09.10	04.41	15.09.10	23.15	Stopped due to high frequency and low demand.
		23.09.10	17.06	26.09.10	01.14	
		03.10.10	10.16	01.11.10	15.30	Boiler Tube Leakage
		01.11.10	15.48	01.11.10	16.35	Boiler Tube Leakage
		04.11.10	18.20	05.11.10	19.27	Boiler Tube Leakage
		12.11.10	12.18	13.11.10	14.57	Boiler Tube Leakage
		04.12.10	12.00	05.12.10	11.50	Furnace problem
		15.12.10	09.08	16.12.10	06.55	Furnace pressure very high
		17.12.10	12.28	18.12.10	23.22	Excitation problem
		25.12.10	09.02	26.12.10	10.46	Boiler Tube Leakage
		11.01.11	09.16	12.01.11	16.10	Boiler Tube Leakage
		25.01.11	12.10	26.01.11	07.55	Boiler Tube Leakage
		01.02.11	13.57	03.02.11	13.45	Boiler Tube Leakage
		07.03.11	07.17	10.03.11	07.14	Boiler Tube Leakage
		24.03.11	15.00	26.03.11	13.34	Boiler Tube Leakage

E) RITHALA CCGT

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	36	06.12.10	17:36	07.12.10	19:25	GT tripped on Exhaust spread high
		08.12.10	12:48	09.12.10	11:30	GT shutdown as Spread was on higher side.
		09.12.10	18:00	09.12.10	18:54	At 10 MW GT Generator load, load throw-off test done successfully.
		10.12.10	0:48	10.12.10	19:31	TK1 tripped on Earth fault. GT 1 was shutdown to attend TK1
		11.12.10	21:55	12.12.10	3:03	GT shutdown to attend CT oil leakage work at RG-1 line1 & 2 Cennet Side
		14.12.10	8:38	14.12.10	23:44	GT breaker opened & machine came on FSNL, due to fault at Cennet end. Machine tripped manually from FSNL speed but its ratcheting operation did not come into service at Zero rpm
		26.12.10	23:22	27.12.10	14:28	GT 1 tripped on 'Turbine compartment gas detected-Trip'. No gas leakage was detected with the hand LEL meter. One gas detector was defective
		28.12.10	21:13	28.12.10	22:44	GT tripped on "Loss of flame" due sudden drop of gas line pressure. Pressure drop was due to GAIL gas line control valve of loop 1 & loop 2 were not able to control the downstream pressure, tripping both slam shut off valve
		08.01.11	11:35	12.01.11	17:25	GT breaker opened & machine came on FSNL, due to fault at Cennet end. Machine tripped manually from FSNL speed as the station was in Blackout condition.
		18.01.11	17:15	18.01.11	17:45	GT tripped due to loss of both the supply to GT control system (Triconex). Both UPS supply found in trip condition. Cause of tripping is to be investigated
		20.01.11	7:52	20.01.11	10:39	GT1 tripped as GCB opened on over frequency. Turbine tripped Manually because of no auxiliary supply available.
		21.01.11	21:30	22.01.11	0:00	GT shutdown as Spread was on higher side.
		22.01.11	23:58	25.01.11	22:03	GT shutdown as Spread was on higher side.
		25.01.11	22:55	02.02.11	14:39	GT shutdown taken to follow load resitriction (UI privilege).
		02.02.11	16:25	02.02.11	17:16	GT 1 load reduced to 5 MW and Generator breaker was opened manually as Blackout had to be created for line changeover at Cennet end
		14.02.11	21:02	15.02.11	3:23	GT1 tripped as GCB opened due to fault at Cennet end. Turbine tripped Manually because of no auxiliary supply available.
		17.02.11	8:12	17.02.11	12:30	GT load dropped as Air Intake filter dP was going High. GT tripped due to High Air Inlet dP. Turbine shutdown at 8:25 hrs
		18.02.11	6:00	21.02.11	6:11	GT 1 was shutdown as per Cennet.
		24.02.11	14:09	28.02.11	6:41	GT 1 was shutdown as per Cennet.
		03.03.11	5:33	05.03.11	6:28	GT 1 exhaust frame cooling fans TK1 & TK2 tripped on earth fault, as per logic turbine unloaded & came on FSNL. Due to unavailability of exhaust cooling fans, turbine shutdown
		05.03.11	8:36	05.03.11	10:25	At 07:50 hrs air filter dP increased up to 285 mmwc. Load was reduced to 10 MW and then to 5 MW but still dP was increasing. GT 1 shutdown as condition did not improve
		10.03.11	11:53	17.03.11	12:14	GT 1 shutdown after starting GT 2. **Planned outage** taken
		29.03.11	19:29	01.04.11	17:05	GT 1 tripped due to Triconix card failure.

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
2	36	05.10.10	15:50	05.10.10	22:32	GT start/ shutdown logic testing done by Invensys, during testing machine tripped.
		06.10.10	17:06	06.10.10	20:06	GT tripped on lube oil temperature high, due to tripping of ACW pump 2.
		07.10.10	16:57	07.10.10	22:06	At 10 MW GT Generator load, load throw-off test done successfully.
		08.10.10	16:23	08.10.10	17:03	At 20 MW load, Generator load throw-off test done successfully
		09.10.10	21:04	10.10.10	0:46	GT Tripped on Exhaust Spread High,
		10.10.10	21:17	11.10.10	16:54	GT Tripped on gas compartment gas leak level high. Leakage confirmed by gas leak detector at the stem of SRV
		11.10.10	20:12	25.10.10	18:35	Machine tripped manually as SRV stem gas leak was persisting
		29.10.10	18:17	30.10.10	19:28	GT stopped for attending SRV stem gas leak
		04.11.10	7:37	04.11.10	9:49	GT Generator CB opened on over voltage because RG1 line 1 66 kV breaker was inadvertently opened at Cennet end. Machine remained on FSNL but as GT 2 MCC supply was not available, Turbine tripped manually. 6 kV breakers of BOP1 & ST4, 380 V PCC incomers 1 & 2 also tripped on under voltage due to this
		04.11.10	22:19	05.11.10	10:45	GT tripped on load gear bearing temperature high (Alarm tag -mbtlg3_alm). Bearing temperature went up to 193 ^{O}C. As per C & I spurious tripping.
		06.11.10	7:17	06.11.10	9:00	Excitation voltage transducer failed alarm appeared and Generator CB Tripped on generator overvoltage. GT 2 came on FSNL. As GT 2 MCC power supply was lost, turbine was tripped manually.. On investigation it was found that RG1 line 1 and line 2, 66 kV breakers tripped at Cennet side. Power was restored and GT 2 ratcheting was switched from DC EOP to AOP
		08.11.10	23:39	09.11.10	20:04	TK1 fan tripped on Overload. GT 2 load dropped to 15 MW as its exhaust frame cooling air pressure went low. Its motor winding was found burnt. Turbine tripped manually
		20.11.10	4:02	20.11.10	5:46	GT tripped on loss of exhaust thermocouple lockout. All exhaust thermocouple and wheel space values came to zero before showing normal value. Card supply failure suspected
		21.11.10	3:23	21.11.10	11:14	GT 2 TK fan 1 tripped on earth fault. GT 2 load dropped & turbine tripped manually
		21.11.10	20:32	22.11.10	18:04	Abnormal sound. Leak heavy air leakage from turbine compartment
		26.11.10	11:35	27.11.10	18:24	TK fan 1 current was found high. Abnormal sound was heard from its motor. GT 2 load dropped and shutdown to attend TK fan
		28.11.10	6:19	28.11.10	15:00	While increasing GT load, smoke was observed from generator control panel. (CT terminals Block). Turbine immediately tripped manually by EPB. Some of the cables were burnt due to flame in CT terminals.
		28.11.10	15:39	28.11.10	15:45	Trip circuit operation of GCB was checked by simulation. Machine was operating on FSNL during this test
		06.12.10	17:39	06.12.10	19:29	GT 2 tripped on reverse power protection & under frequency relay operated. **Grid disturbances**
		11.12.10	21:35	12.12.10	1:50	GT shutdown to attend CT oil leakage work at RG-1 line1 & 2 Cennet Side
		13.12.10	17:54	16.12.10	23:34	GT-2 load gear vent fan VG1 got tripped, GT load reduced to 5 MW & GT shutdown taken to attend VG1 motor
		27.12.10	11:22	27.12.10	15:28	GT Tripped on 'Lube oil pressure low'. Actual pressure was found normal. Suprious tripping suspected.

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
2	36	28.12.10	21:12	28.12.10	23:17	GT tripped on “Loss of flame” due sudden drop of gas line pressure. Pressure drop was due to GAIL gas line control valve of loop 1 & loop 2 were not able to control the downstream pressure, tripping both slam shut off valve
		08.01.11	11:35	08.01.11	15:46	GT breaker opened & machine came on FSNL, due to fault at Cennet end. Machine tripped manually from FSNL speed as the station was in Blackout condition.
		12.01.11	18:13	21.01.11	17:33	GT 2 shutdown as GT 1 Reliabilty test started and because of Load & Gas restriction.
		21.01.11	23:36	22.01.11	16:27	GT2 tripped as GCV not tracking (mGCV_track)
		25.01.11	13:45	25.01.11	16:49	GT tripped on “GCV NOT TRACKING TRIP”.
		25.01.11	17:07	25.01.11	18:55	GT tripped on “GCV NOT TRACKING TRIP”
		27.01.11	12:32	27.01.11	14:22	GT 2 load thrown off test was conducted. Load of around 7 MW was kept for GT. GT load dropped from 28 MW to 7 MW but generator breaker tripped on over frequency. In Siprotec relay F4 picked up. Frequency went up to 52.38Hz. Supply was lost from CENNET end. Blackout occurred. Turbine stop command was given
		02.02.11	12:38	02.02.11	13:08	GT 2 tripped during 'Load throw Off Test"
		02.02.11	13:15	02.02.11	13:23	GT 2 tripped during 'Load throw Off Test"
		02.02.11	13:25	02.02.11	13:55	GT 2 Tripped by Emergency Push Button as machine did not come to Preselect mode after synchronization
		02.02.11	16:01	02.02.11	16:08	GT 2 Generator CB opened for checking how machine is maintaining its voltage in load thrown off condition
		02.02.11	16:57	24.02.11	13:09	GT 2 shutdown as GT 1 is in kept in service. GT 2 is kept standby as per Fuel gas availability.
		27.02.11	6:00	03.03.11	8:51	GT 2 shutdown as per Cennet
		08.03.11	11:00	09.03.11	22:10	GT 2 tripped on Overall Differential protection
		09.03.11	22:12	10.03.11	11:09	GT 2 was shutdown after checking availability. Unit and kept standby
		18.03.11	20:00	29.03.11	22:21	GT 2 was shutdown and kept standby

9. POWER SUPPLY POSITION OF DELHI DURING 2010-11

9.1 Power supply position during the month of April 2010

All figures in MUs

S. no.	SOURCE	Availability at Power Plant bus	Availability at Delhi periphery	Allocation made by NRLDC at Power Plant	Allocation Made by NRLDC at Delhi periphery
1	**SINGRAULI**	96.687	93.516	96.687	93.516
2	**RIHAND-I**	34.458	33.326	34.458	33.326
3	**RIHAND-II**	85.919	83.097	85.919	83.097
4	**UNCHAHAR-I**	16.441	15.901	16.441	15.901
5	**UNCHAHAR-II**	26.471	25.592	26.471	25.592
6	**UNCHAHAR-III**	20.478	19.806	20.478	19.806
7	**DADRI(TH)**	386.133	373.454	386.133	373.454
8	**DADRI(TH)- Stage-II**	277.016	267.944	277.016	267.944
9	**FARAKA**	7.647	7.460	7.460	7.214
10	**KHELGAON**	21.479	20.961	20.961	20.272
11	**KHELGAON-II**	61.882	60.404	60.404	58.399
12	**ANTA(GT)**	19.018	18.394	19.018	18.394
	ANTA(Liquid)	0.000	0.000	0.000	0.000
	ANTA(RLNG)	8.053	7.788	4.894	4.735
13	**AURAIYA(GT)**	32.090	31.039	32.090	31.039
	AURAIYA(Liquid)	0.000	0.000	0.000	0.000
	AURAIYA(RLNG)	13.088	12.654	7.625	7.376
14	**DADRI(GT)**	48.209	46.629	48.209	46.629
	DADRI(Liquid)	0.000	0.000	0.000	0.000
	DADRI (RLNG)	10.615	10.263	5.585	5.402
A.	**TOTAL NTPC (TOTAL 1 TO 14)**	**1165.684**	**1128.228**	**1149.849**	**1112.096**
15	**TANAKPUR**	2.123	2.053	2.309	2.233
16	**CHAMERA-I**	13.093	12.667	13.093	12.667
17	**CHAMERA-II**	15.149	14.654	15.149	14.654
18	**B/SUIL**	7.677	7.426	7.677	7.426
19	**SALAL**	30.856	29.848	28.827	27.889
20	**DULASTI**	27.278	26.389	27.278	26.389
21	**DAULI GANGA**	7.941	7.682	7.941	7.682
22	**URI(HEP)**	36.936	35.723	37.161	35.941
23	**SEWA -II**	0.000	0.000	0.000	0.000
B	**TOTAL NHPC (TOTAL 16 TO 23)**	**141.053**	**136.442**	**139.435**	**134.881**
25	**NAPP**	8.330	8.056	8.330	8.056
26	**RAPP 'B'**	1.249	1.208	1.249	1.208
27	**RAPP 'C'**	16.279	15.744	16.279	15.744
C	**TOTAL NPC (TOTAL 25 TO 27)**	**25.858**	**25.008**	**25.858**	**25.008**
D	**NATHPA JHAKHRI(SJVNL)**	41.330	39.983	41.330	39.983
E	**TALA**	2.671	2.605	2.605	2.520
F	**TALCHER**	0.000	0.000	0.000	0.000
G	**TEHRI**	18.280	17.677	18.280	17.677
H	**JHAJJAR**	0.000	0.000	0.000	0.000

S. no.	SOURCE	Availability at Power Plant bus	Availability at Delhi periphery	Allocation made by NRLDC at Power Plant	Allocation Made by NRLDC at Delhi periphery
	BILATERAL IMPORT				
(I)	**DVC**	35.171	34.305	34.305	33.186
(ii)	**RASJASTHAN**	11.166	10.324	10.324	9.985
(iii)	**GUJRAT**	1.005	0.952	0.952	0.920
(iv)	**MADHYA PRADESH**	15.827	14.964	14.963	14.475
(v)	**HARYANA**	3.792	3.665	3.792	3.665
(vi)	**MAHARASHTRA**	1.584	1.498	1.426	1.379
(vii)	**SIKKIM**	22.367	21.827	21.827	21.109
(viii)	**NAGALAND**	0.000	0.000	0.000	0.000
(ix)	**DVC (TATA STEEEL)**	1.921	1.875	1.801	1.740
(x)	**WEST BENGAL**	0.620	0.604	0.604	0.584
(xi)	**CHATTISHGARH**	336.132	317.790	312.617	302.380
(xii)	**UTTRANCHAL**	14.400	13.942	14.400	13.942
(xiii)	**ARUNACHAL PRADESH**	2.612	2.545	2.461	2.385
(xiv)	**KARNATAKA**	2.687	2.509	2.356	2.276
(xv)	**ORISSA**	35.997	35.123	33.718	32.611
(xvi)	**PUNJAB**	18.059	16.280	16.280	15.754
(xvii)	**POWER EXCHANGE(IEX)**	22.517	21.811	22.517	21.811
(xviii)	**POWER EXCHANGE (PX)**	8.150	7.896	8.150	7.896
I	**TOTAL BILATERAL IMPORT**	534.007	507.910	502.493	486.098
(I)	**BILATERAL EXPORT**				
(ii)	**RAJASTHAN**	-0.485	-0.502	-0.485	-0.502
(iii)	**KARNATAKA**	-1.755	-1.832	-1.452	-1.502
(iv)	**MEGHALAYA**	-1.674	-1.713	-1.713	-1.773
(v)	**MADHYA PRADESH**	-20.430	-21.601	-21.601	-22.300
(vi)	**WEST BENGAL**	-15.730	-16.110	-16.110	-16.666
(vii)	**POWER EXCHANGE (IEX)**	-91.338	-94.503	-91.338	-94.503
(viii)	**TO POWER EXCHANGE (PX)**	-4.201	-4.337	-4.201	-4.337
J	**TOTAL BILATERAL EXPORT**	-135.613	-140.598	-136.900	-141.583
K	**TOTAL DRAWAL FROM THE NORTHERN GRID (A+B+C+D+E+F+G+H+I+J)**	1793.270	1717.254	1742.948	1676.680
L	**OVER DRAWL(+)/UNDER DRAWAL(-) FROM THE GRID**				-223.478
	AVAILABILITY FROM OWN SOURCES				
(I)	**RPH**				64.195
(ii)	**JAJJAR SHARE IN RPH**				0.660
(iii)	**NET GENERATION AVAILABILITY FOR DELHI IN RPH**				63.535
(iv)	**GT**				125.027
(v)	**PRAGATI**				210.790
(vi)	**RITHALA**				0.000
M	**TOTAL AVAILABILITY FROM OWN SOURCES (3+4+5+6)**				399.352
N	**IMPORT FROM BTPS**				415.178
O	**TOTAL AVAILABILITY WITHIN DELHI (7+8)**				814.530
P	**TOTAL CONSUMPTION (B9+49A+50)**				2267.732
Q	**LOAD SHEDDING**				20.365
R	**REQUIREMENT(C+D)**				2288.097
S	**% DEPENDENCE ON N.GRID**				73.94
T	**AUXILIARY CONSUMPTION OF GENERATING UNITS WITHIN DELHI**				17.615
U	**NET CONSUMPTION OF DELHI**				2250.117

9.2 Power supply position during the month of May 2010

Sr. NO.	DETAILS OF THE IMPORT FROM THE GRID INDICATING DIFFERENT SOURCES	Availability at Power Plant bus	Availability at Delhi periphery	Allocation made by NRLDC at Power Plant	Allocation Made by NRLDC at Delhi periphery
1	**SINGRAULI**	114.900	111.101	114.900	111.101
2	**RIHAND-I**	47.696	46.101	47.549	45.959
3	**RIHAND-II**	92.390	89.334	92.208	89.159
4	**UNCHAHAR-I**	16.700	16.148	16.340	15.801
5	**UNCHAHAR-II**	31.178	30.152	30.430	29.430
6	**UNCHAHAR-III**	21.632	20.917	21.169	20.470
7	**DADRI(TH)**	504.879	488.128	482.520	466.512
8	**DADRI(TH)- Stage-II**	300.938	290.976	281.984	272.648
9	**FARAKA**	13.538	13.235	13.235	12.797
10	**KHELGAON**	25.875	25.293	25.293	24.458
11	**KHELGAON-II**	62.120	60.688	60.688	58.704
12	**ANTA(GT)**	21.099	20.400	21.068	20.371
	ANTA(Liquid)	0.000	0.000	0.000	0.000
	ANTA(RLNG)	8.037	7.771	3.235	3.127
13	**AURAIYA(GT)**	32.111	31.054	32.066	31.011
	AURAIYA(Liquid)	0.000	0.000	0.000	0.000
	AURAIYA(RLNG)	13.427	12.984	5.695	5.506
14	**DADRI(GT)**	46.756	45.212	46.666	45.125
	DADRI(Liquid)	0.000	0.000	0.000	0.000
	DADRI (RLNG)	12.861	12.432	4.891	4.727
A.	**TOTAL NTPC (TOTAL 1 TO 14)**	**1366.137**	**1321.926**	**1299.937**	**1256.906**
15	**TANAKPUR**	3.598	3.479	5.168	4.997
16	**CHAMERA-I**	20.349	19.678	20.349	19.678
17	**CHAMERA-II**	26.871	25.982	26.871	25.982
18	**B/SUIL**	8.801	8.510	8.801	8.510
19	**SALAL**	48.313	46.711	48.073	46.480
20	**DULASTI**	36.067	34.878	36.067	34.878
21	**DAULI GANGA**	14.728	14.239	14.728	14.239
22	**URI(HEP)**	38.984	37.694	38.939	37.650
23	**SEWA -II**	0.000	0.000	0.000	0.000
B	**TOTAL NHPC (TOTAL 16 TO 23)**	**197.711**	**191.171**	**198.996**	**192.414**
25	**NAPP**	5.295	5.115	5.295	5.115
26	**RAPP 'B'**	1.392	1.345	1.391	1.344
27	**RAPP 'C'**	23.164	22.411	23.134	22.382
C	**TOTAL NPC (TOTAL 25 TO 27)**	**29.851**	**28.871**	**29.820**	**28.841**
D	**NATHPA JHAKHRI(SJVNL)**	91.049	88.031	91.049	88.031
E	**TALA**	5.149	5.038	5.038	4.868
F	**TALCHER**	0.000	0.000	0.000	0.000
G	**TEHRI**	13.782	13.328	13.782	13.328
H	**JHAJJAR**	0.000	0.000	0.000	0.000
	BILATERAL IMPORT				
(I)	**DVC**	51.960	50.782	50.782	49.106
(ii)	**RASJASTHAN**	27.994	25.881	25.881	25.029
(iii)	**GUJRAT**	39.000	36.842	36.292	35.086
(iv)	**MADHYA PRADESH**	76.254	72.031	72.031	69.641
(v)	**HARYANA**	6.640	6.410	6.640	6.410

Sr. NO.	DETAILS OF THE IMPORT FROM THE GRID INDICATING DIFFERENT SOURCES	Availability at Power Plant bus	Availability at Delhi periphery	Allocation made by NRLDC at Power Plant	Allocation Made by NRLDC at Delhi periphery
(vi)	**MAHARASHTRA**	14.486	13.687	13.023	12.593
(vii)	**SIKKIM**	21.731	21.243	21.220	20.540
(viii)	**WEST BENGAL**	15.509	15.161	15.161	14.659
(ix)	**CHATTISHGARH**	346.864	327.644	323.900	313.130
(x)	**UTTRANCHAL**	29.760	28.776	29.760	28.776
(xi)	**ARUNACHAL PRADESH**	5.508	5.390	5.213	5.037
(xii)	**ORISSA**	37.195	36.360	34.907	33.752
(xiii)	**PUNJAB**	35.975	32.681	32.681	31.604
(xiv)	**ANDHRA PRADESH**	58.096	54.754	51.346	49.647
(xv)	**HIMACHAL PRADESH**	62.265	60.206	62.265	60.206
(xvi)	**UTTAR PRADESH**	25.555	23.462	23.462	22.675
(xvii)	**UNREQUISITIONED SURPLUS**	0.000	0.000	0.000	0.000
(xviii)	**POWER EXCHANGE(IEX)**	8.014	7.747	8.014	7.747
(xix)	**POWER EXCHANGE (PX)**	1.969	1.903	1.969	1.903
I	**TOTAL BILATERAL IMPORT**	864.775	820.960	814.547	787.541
(I)	**BILATERAL EXPORT**				
(ii)	**KARNATAKA**	-2.706	-2.774	-2.774	-2.866
(iii)	**HARYANA**	-0.691	-0.714	-0.691	-0.714
(iv)	**POWER EXCHANGE (IEX)**	-120.765	-124.898	-131.098	-135.551
(v)	**TO POWER EXCHANGE (PX)**	-1.359	-1.404	-1.359	-1.404
J	**TOTAL BILATERAL EXPORT**	-125.521	-129.790	-135.922	-140.535
K	**TOTAL DRAWAL FROM THE NORTHERN GRID (A+B+C+D+E+F+G+H+I+J)**	2442.929	2339.536	2317.244	2231.396
L	**OVER DRAWL(+)/UNDER DRAWAL(-) FROM THE GRID**				-413.217
	AVAILABILITY FROM OWN SOURCES				
(I)	**RPH**				48.371
(ii)	**JAJJAR SHARE IN RPH**				0.682
(iii)	**NET GEN. AVAIL.FOR DELHI IN RPH**				47.689
(iv)	**GT**				127.441
(v)	**PRAGATI**				216.201
(vi)	**RITHALA**				0.000
M	**TOTAL AVAIL.FROM OWN SOURCES (3+4+5+6)**				391.331
N	**IMPORT FROM BTPS**				338.631
O	**TOTAL AVAILABILITY WITHIN DELHI(7+8)**				729.962
P	**TOTAL CONSUMPTION (B9+49A+50)**				2548.141
Q	**LOAD SHEDDING**				11.889
R	**REQUIREMENT(C+D)**				2560.030
S	**% DEPENDENCE ON N.GRID**				87.57
T	**AUXILIARY CONSUMPTION OF GENERATING UNITS WITHIN DELHI**				16.209
U	**NET CONSUMPTION OF DELHI**				2531.932

9.3 Power supply position during the month of June 2010

Sr. NO.	DETAILS OF THE IMPORT FROM THE GRID INDICATING DIFFERENT SOURCES	Availability at Power Plant bus	Availability at Delhi periphery	Allocation made by NRLDC at Power Plant	Allocation Made by NRLDC at Delhi periphery
1	**SINGRAULI**	107.260	103.898	107.923	104.541
2	**RIHAND-I**	67.734	65.616	67.734	65.616
3	**RIHAND-II**	87.194	84.458	88.441	85.668
4	**UNCHAHAR-I**	16.245	15.736	15.198	14.722
5	**UNCHAHAR-II**	32.101	31.094	30.012	29.071
6	**UNCHAHAR-III**	20.466	19.824	19.229	18.627
7	**DADRI(TH)**	514.402	498.284	484.156	468.988
8	**DADRI(TH)- Stage-II**	317.270	307.329	298.518	289.166
9	**FARAKA**	13.146	12.734	12.692	12.296
10	**KHELGAON**	26.977	26.130	25.769	24.961
11	**KHELGAON-II**	50.384	48.808	49.919	48.360
12	**ANTA(GT)**	17.120	16.580	16.445	15.926
	ANTA(Liquid)	0.000	0.000	0.000	0.000
	ANTA(RLNG)	6.045	5.855	1.055	1.022
13	**AURAIYA(GT)**	30.614	29.656	28.867	27.964
	AURAIYA(Liquid)	0.029	0.028	0.000	0.000
	AURAIYA(RLNG)	16.103	15.599	2.862	2.771
14	**DADRI(GT)**	44.754	43.353	42.993	41.649
	DADRI(Liquid)	0.000	0.000	0.000	0.000
	DADRI (RLNG)	14.747	14.284	2.214	2.143
A.	**TOTAL NTPC (TOTAL 1 TO 14)**	**1382.591**	**1339.266**	**1294.027**	**1253.491**
15	**TANAKPUR**	4.682	4.536	4.673	4.527
16	**CHAMERA-I**	23.221	22.495	23.285	22.557
17	**CHAMERA-II**	28.158	27.277	28.284	27.399
18	**B/SUIL**	8.123	7.868	8.166	7.910
19	**SALAL**	47.358	45.879	47.360	45.882
20	**DULASTI**	34.373	33.298	34.375	33.300
21	**DAULI GANGA**	16.638	16.119	16.025	15.525
22	**URI(HEP)**	36.788	35.637	36.817	35.665
23	**SEWA -II**	1.339	1.295	0.051	0.049
B	**TOTAL NHPC (TOTAL 16 TO 23)**	**200.680**	**194.404**	**199.036**	**192.814**
25	**NAPP**	7.779	7.536	7.779	7.535
26	**RAPP 'B'**	1.743	1.688	1.743	1.688
27	**RAPP 'C'**	13.065	12.649	13.025	12.610
C	**TOTAL NPC (TOTAL 25 TO 27)**	**22.587**	**21.873**	**22.547**	**21.833**
D	**NATHPA JHAKHRI(SJVNL)**	99.466	96.355	99.436	96.326
E	**TALA**	11.615	11.254	11.286	10.935
F	**TALCHER**	0.000	0.000	0.000	0.000
G	**TEHRI**	16.178	15.669	16.124	15.617
H	**JHAJJAR**	0.000	0.000	0.000	0.000
	BILATERAL IMPORT				
(I)	**DVC**	52.267	51.201	50.179	48.595
(ii)	**RASJASTHAN**	6.882	6.667	6.882	6.667
(iii)	**GUJRAT**	26.883	25.378	24.034	23.279
(iv)	**MADHYA PRADESH**	87.639	82.696	78.807	76.354
(v)	**MAHARASHTRA**	5.397	5.221	5.397	5.221

Sr. NO.	DETAILS OF THE IMPORT FROM THE GRID INDICATING DIFFERENT SOURCES	Availability at Power Plant bus	Availability at Delhi periphery	Allocation made by NRLDC at Power Plant	Allocation Made by NRLDC at Delhi periphery
(vi)	**SIKKIM**	42.287	41.424	41.386	40.089
(vii)	**NAGALAND**	12.359	12.106	11.657	11.292
(viii)	**TAMILNADU**	9.832	9.425	9.234	8.953
(ix)	**WEST BENGAL**	8.362	8.191	7.918	7.672
(x)	**CHATTISHGARH**	501.096	472.997	446.653	432.653
(xi)	**UTTRANCHAL**	28.793	27.898	28.793	27.898
(xii)	**ARUNACHAL PRADESH**	10.323	10.112	9.746	9.439
(xiii)	**ORISSA**	34.035	33.341	31.940	30.939
(xiv)	**PUNJAB**	18.610	18.027	18.610	18.027
(xv)	**ANDHRA PRADESH**	76.787	74.075	70.452	68.228
(xvi)	**HIMACHAL PRADESH**	91.789	88.939	91.789	88.939
(xvii)	**UTTAR PRADESH**	19.835	19.210	19.835	19.210
(xviii)	**UNREQUISITIONED SURPLUS**	0.310	0.301	0.310	0.301
(xix)	**POWER EXCHANGE(IEX)**	0.640	0.621	0.640	0.621
(xx)	**POWER EXCHANGE (PX)**	0.000	0.000	0.000	0.000
I	**TOTAL BILATERAL IMPORT**	1034.126	987.830	954.262	924.377
(I)	**BILATERAL EXPORT**				
(ii)	**RAJASTHAN**	-1.023	-1.055	-1.023	-1.055
(iii)	**UTTAR PRADESH**	-50.053	-51.653	-50.053	-51.653
(iv)	**ANDHRA PRADESH**	-0.967	-0.988	-0.988	-1.021
(v)	**UTTRANCHAL**	-1.204	-1.241	-1.204	-1.241
(vi)	**POWER EXCHANGE (IEX)**	-237.614	-245.351	-237.614	-245.351
(vii)	**TO POWER EXCHANGE (PX)**	-8.186	-8.444	-8.186	-8.444
J	**TOTAL BILATERAL EXPORT**	-299.047	-308.732	-299.068	-308.765
K	**TOTAL DRAWAL FROM THE NORTHERN GRID (A+B+C+D+E+F+G+H+I+J)**	2468.195	2357.920	2297.651	2206.627
L	**OVER DRAWL(+)/UNDER DRAWAL(-) FROM THE GRID**				-469.075
	AVAILABILITY FROM OWN SOURCES				
(I)	**RPH**				47.816
(ii)	**JAJJAR SHARE IN RPH**				0.660
(iii)	**NET GEN. AVAIL.FOR DELHI IN RPH**				47.156
(iv)	**GT**				132.079
(v)	**PRAGATI**				209.850
(vi)	**RITHALA**				0.000
M	**TOTAL AVAIL.FROM OWN SOURCES (3+4+5+6)**				389.085
N	**IMPORT FROM BTPS**				363.966
O	**TOTAL AVAILABILITY WITHIN DELHI(7+8)**				753.051
P	**TOTAL CONSUMPTION (B9+49A+50)**				2490.603
Q	**LOAD SHEDDING**				10.355
R	**REQUIREMENT(C+D)**				2500.958
S	**% DEPENDENCE ON N.GRID**				88.60
T	**AUXILIARY CONSUMPTION OF GENERATING UNITS WITHIN DELHI**				16.648
U	**NET CONSUMPTION OF DELHI**				2473.955

9.4 Power supply position during the month of July 2010

Sr. NO.	DETAILS OF THE IMPORT FROM THE GRID INDICATING DIFFERENT SOURCES	Availability at Power Plant bus	Availability at Delhi periphery	Allocation made by NRLDC at Power Plant	Allocation Made by NRLDC at Delhi periphery
1	**SINGRAULI**	104.832	101.547	102.723	99.505
2	**RIHAND-I**	73.068	70.776	71.774	69.523
3	**RIHAND-II**	91.768	88.892	90.530	87.695
4	**UNCHAHAR-I**	16.189	15.683	14.070	13.632
5	**UNCHAHAR-II**	34.128	33.057	29.437	28.517
6	**UNCHAHAR-III**	21.541	20.865	18.579	17.998
7	**DADRI(TH)**	525.475	508.984	479.221	464.199
8	**DADRI(TH)- Stage-II**	315.933	306.032	289.542	280.478
9	**FARAKA**	13.500	13.077	12.279	11.895
10	**KHELGAON**	27.671	26.801	26.139	25.320
11	**KHELGAON-II**	44.913	43.496	44.349	42.950
12	**ANTA(GT)**	16.586	16.067	13.690	13.263
	ANTA(Liquid)	0.000	0.000	0.000	0.000
	ANTA(RLNG)	12.336	11.952	1.211	1.175
13	**AURAIYA(GT)**	34.905	33.809	29.148	28.235
	AURAIYA(Liquid)	0.116	0.112	0.000	0.000
	AURAIYA(RLNG)	15.523	15.038	1.391	1.349
14	**DADRI(GT)**	43.068	41.712	36.601	35.452
	DADRI(Liquid)	0.000	0.000	0.000	0.000
	DADRI (RLNG)	17.103	16.567	1.364	1.323
A.	**TOTAL NTPC (TOTAL 1 TO 14)**	**1408.655**	**1364.467**	**1262.048**	**1222.509**
15	**TANAKPUR**	8.038	7.786	8.076	7.823
16	**CHAMERA-I**	30.724	29.760	30.730	29.767
17	**CHAMERA-II**	27.395	26.536	27.405	26.546
18	**B/SUIL**	9.834	9.525	9.694	9.389
19	**SALAL**	48.047	46.543	48.460	46.943
20	**DULASTI**	35.829	34.707	35.945	34.819
21	**DAULI GANGA**	23.434	22.703	23.440	22.709
22	**URI(HEP)**	38.629	37.417	38.651	37.438
23	**SEWA -II**	6.857	6.641	6.812	6.598
B	**TOTAL NHPC (TOTAL 16 TO 23)**	**228.787**	**221.618**	**229.213**	**222.032**
25	**NAPP**	10.024	9.710	10.024	9.710
26	**RAPP 'B'**	1.673	1.621	1.673	1.621
27	**RAPP 'C'**	15.186	14.706	14.909	14.438
C	**TOTAL NPC (TOTAL 25 TO 27)**	**26.883**	**26.037**	**26.606**	**25.769**
D	**NATHPA JHAKHRI(SJVNL)**	93.601	90.662	93.592	90.653
E	**TALA**	22.349	21.648	22.384	21.682
F	**TALCHER**	0.000	0.000	0.000	0.000
G	**TEHRI**	13.983	13.544	13.983	13.544
H	**JHAJJAR**	0.000	0.000	0.000	0.000
	BILATERAL IMPORT				
(I)	**DVC**	55.447	54.192	52.210	50.472
(ii)	**RASJASTHAN**	4.637	4.484	4.637	4.484
(iii)	**MADHYA PRADESH**	157.084	148.794	140.876	136.243
(iv)	**MAHARASHTRA**	32.397	30.459	28.763	27.776
(v)	**NAGALAND**	15.870	15.510	14.990	14.496

Sr. NO.	DETAILS OF THE IMPORT FROM THE GRID INDICATING DIFFERENT SOURCES	Availability at Power Plant bus	Availability at Delhi periphery	Allocation made by NRLDC at Power Plant	Allocation Made by NRLDC at Delhi periphery
(vi)	**TAMILNADU**	20.205	19.334	18.939	18.312
(vii)	**TRIPURA**	11.191	10.938	10.570	10.220
(viii)	**WEST BENGAL**	41.698	40.755	39.386	38.084
(ix)	**CHATTISHGARH**	449.714	425.846	401.770	388.470
(x)	**UTTRANCHAL**	29.760	28.776	29.760	28.776
(xi)	**ARUNACHAL PRADESH**	17.567	17.169	16.591	16.042
(xii)	**KARNATAKA**	30.458	29.145	27.840	26.919
(xiii)	**MEGHALAYA**	22.876	22.359	21.606	20.892
(xiv)	**ORISSA**	36.970	36.134	34.576	33.433
(xv)	**ANDHRA PRADESH**	51.624	49.404	47.123	45.561
(xvi)	**HIMACHAL PRADESH**	93.909	90.799	93.909	90.799
(xvii)	**UTTAR PRADESH**	17.360	16.786	17.360	16.786
(xviii)	**UNREQUISITIONED SURPLUS**	0.000	0.000	0.000	0.000
(xix)	**POWER EXCHANGE(IEX)**	0.173	0.167	0.173	0.167
(xx)	**POWER EXCHANGE (PX)**	0.000	0.000	0.000	0.000
I	**TOTAL BILATERAL IMPORT**	1088.940	1041.051	1001.079	967.932
(I)	**BILATERAL EXPORT**				
(ii)	**UTTAR PRADESH**	-42.862	-44.325	-42.862	-44.325
(iii)	**KERALA**	-0.142	-0.146	-0.146	-0.150
(iv)	**MAHARASHTRA**	-0.374	-0.382	-0.382	-0.394
(v)	**MADHYA PRADESH**	-7.279	-7.630	-7.630	-7.880
(vi)	**WEST BENGAL**	-0.654	-0.669	-0.669	-0.690
(vii)	**POWER EXCHANGE (IEX)**	-203.048	-210.072	-203.048	-210.072
(viii)	**TO POWER EXCHANGE (PX)**	-6.535	-6.758	-6.535	-6.758
J	**TOTAL BILATERAL EXPORT**	-260.894	-269.982	-261.272	-270.269
K	**TOTAL DRAWAL FROM THE NORTHERN GRID (A+B+C+D+E+F+G+H+I+J)**	2622.301	2509.047	2387.633	2293.852
L	**OVER DRAWL(+)/UNDER DRAWAL(-) FROM THE GRID**				-426.994
	AVAILABILITY FROM OWN SOURCES				
(I)	**RPH**				77.039
(ii)	**JAJJAR SHARE IN RPH**				0.682
(iii)	**NET GEN. AVAIL.FOR DELHI IN RPH**				76.357
(iv)	**GT**				102.638
(v)	**PRAGATI**				214.829
(vi)	**RITHALA**				0.000
M	**TOTAL AVAIL.FROM OWN SOURCES (3+4+5+6)**				393.824
N	**IMPORT FROM BTPS**				315.038
O	**TOTAL AVAILABILITY WITHIN DELHI(7+8)**				708.862
P	**TOTAL CONSUMPTION (B9+49A+50)**				2575.720
Q	**LOAD SHEDDING**				9.275
R	**REQUIREMENT(C+D)**				2584.995
S	**% DEPENDENCE ON N.GRID**				89.06
T	**AUXILIARY CONSUMPTION OF GENERATING UNITS WITHIN DELHI**				18.492
U	**NET CONSUMPTION OF DELHI**				2557.228

9.5 Power supply position during the month of August 2010

Sr. NO.	DETAILS OF THE IMPORT FROM THE GRID INDICATING DIFFERENT SOURCES	Availability at Power Plant bus	Availability at Delhi periphery	Allocation made by NRLDC at Power Plant	Allocation Made by NRLDC at Delhi periphery
1	**SINGRAULI**	87.785	84.901	85.206	82.393
2	**RIHAND-I**	49.134	47.518	48.561	46.964
3	**RIHAND-II**	88.813	85.885	87.490	84.603
4	**UNCHAHAR-I**	16.775	16.220	14.524	14.040
5	**UNCHAHAR-II**	34.330	33.195	30.497	29.485
6	**UNCHAHAR-III**	16.637	16.079	14.262	13.780
7	**DADRI(TH)**	490.543	474.234	434.888	420.402
8	**DADRI(TH)- Stage-II**	390.754	377.817	347.616	336.090
9	**FARAKA**	12.567	12.151	11.530	11.148
10	**KHELGAON**	17.937	17.346	16.685	16.133
11	**KHELGAON-II**	71.004	68.653	69.026	66.737
12	**ANTA(GT)**	21.267	20.568	16.250	15.704
	ANTA(Liquid)	0.869	0.839	0.008	0.008
	ANTA(RLNG)	10.617	10.262	0.869	0.841
13	**AURAIYA(GT)**	31.112	30.090	23.066	22.289
	AURAIYA(Liquid)	3.928	3.798	0.011	0.011
	AURAIYA(RLNG)	16.032	15.496	1.058	1.023
14	**DADRI(GT)**	34.664	33.517	26.704	25.804
	DADRI(Liquid)	6.245	6.030	0.025	0.024
	DADRI (RLNG)	17.555	16.966	1.278	1.236
A.	**TOTAL NTPC (TOTAL 1 TO 14)**	**1418.568**	**1371.565**	**1229.554**	**1188.715**
15	**TANAKPUR**	7.686	7.433	7.686	7.433
16	**CHAMERA-I**	31.095	30.068	31.095	30.068
17	**CHAMERA-II**	28.311	27.374	28.311	27.374
18	**B/SUIL**	12.528	12.113	12.528	12.113
19	**SALAL**	46.924	45.369	46.924	45.369
20	**DULASTI**	30.129	29.138	30.129	29.138
21	**DAULI GANGA**	26.828	25.946	26.828	25.946
22	**URI(HEP)**	36.593	35.379	36.593	35.379
23	**SEWA -II**	11.893	11.500	11.893	11.500
B	**TOTAL NHPC (TOTAL 16 TO 23)**	**231.987**	**224.320**	**231.987**	**224.320**
25	**NAPP**	9.365	9.055	9.365	9.055
26	**RAPP 'B'**	1.091	1.055	1.091	1.055
27	**RAPP 'C'**	20.662	19.979	20.662	19.979
C	**TOTAL NPC (TOTAL 25 TO 27)**	**31.118**	**30.089**	**31.118**	**30.089**
D	**NATHPA JHAKHRI(SJVNL)**	51.186	49.549	51.186	49.549
E	**TALA**	22.268	21.531	22.268	21.531
F	**TALCHER**	0.000	0.000	0.000	0.000
G	**TEHRI**	64.187	62.056	64.187	62.056
H	**JHAJJAR**	0.000	0.000	0.000	0.000
	BILATERAL IMPORT				
(I)	**DVC**	57.207	55.799	53.751	51.982
(ii)	**MADHYA PRADESH**	201.901	191.989	181.835	175.823
(iii)	**GUJRAT**	0.000	0.000	0.000	0.000
(iv)	**MAHARASHTRA**	0.345	0.331	0.313	0.303
(v)	**NAGALAND**	17.560	17.127	16.577	16.028

Sr. NO.	DETAILS OF THE IMPORT FROM THE GRID INDICATING DIFFERENT SOURCES	Availability at Power Plant bus	Availability at Delhi periphery	Allocation made by NRLDC at Power Plant	Allocation Made by NRLDC at Delhi periphery
(vi)	**TRIPURA**	11.191	10.915	10.565	10.216
(vii)	**WEST BENGAL**	17.967	17.525	16.934	16.374
(viii)	**CHATTISHGARH**	422.386	401.618	379.063	366.527
(ix)	**UTTRANCHAL**	29.760	28.776	29.760	28.776
(x)	**ARUNACHAL PRADESH**	12.954	12.639	12.236	11.833
(xi)	**KARNATAKA**	30.627	29.332	27.961	27.037
(xii)	**MEGHALAYA**	22.633	22.076	21.369	20.662
(xiii)	**ORISSA**	40.099	39.112	37.419	36.181
(xiv)	**ANDHRA PRADESH**	29.685	28.444	27.045	26.153
(xv)	**HIMACHAL PRADESH**	89.545	86.612	89.545	86.612
(xvi)	**UTTAR PRADESH**	17.361	16.787	17.361	16.787
(xvii)	**UNREQUISITIONED SURPLUS**	0.637	0.615	0.637	0.615
(xviii)	**POWER EXCHANGE(IEX)**	1.217	1.177	1.217	1.177
(xix)	**POWER EXCHANGE (PX)**	3.688	3.564	3.688	3.564
I	**TOTAL BILATERAL IMPORT**	1006.763	964.438	927.276	896.650
(I)	**BILATERAL EXPORT**				
(ii)	**UTTAR PRADESH**	-95.389	-98.648	-95.389	-98.648
(iii)	**KARNATAKA**	-0.093	-0.095	-0.095	-0.099
(iv)	**KERALA**	-49.223	-50.477	-50.477	-52.205
(v)	**MAHARASHTRA**	-1.734	-1.811	-1.811	-1.872
(vi)	**POWER EXCHANGE (IEX)**	-213.394	-220.652	-213.394	-220.652
(vii)	**TO POWER EXCHANGE (PX)**	-8.828	-9.128	-8.828	-9.128
J	**TOTAL BILATERAL EXPORT**	-368.661	-380.811	-369.994	-382.604
K	**TOTAL DRAWAL FROM THE NORTHERN GRID (A+B+C+D+E+F+G+H+I+J)**	2457.419	2342.739	2187.582	2090.309
L	**OVER DRAWL(+)/UNDER DRAWAL(-) FROM THE GRID**				-346.359
	AVAILABILITY FROM OWN SOURCES				
(I)	**RPH**				80.997
(ii)	**JAJJAR SHARE IN RPH**				0.682
(iii)	**NET GEN. AVAIL.FOR DELHI IN RPH**				80.315
(iv)	**GT**				82.759
(v)	**PRAGATI**				211.522
(vi)	**RITHALA**				0.000
M	**TOTAL AVAIL.FROM OWN SOURCES (3+4+5+6)**				374.596
N	**IMPORT FROM BTPS**				292.486
O	**TOTAL AVAILABILITY WITHIN DELHI(7+8)**				667.082
P	**TOTAL CONSUMPTION (B9+49A+50)**				2411.032
Q	**LOAD SHEDDING**				8.271
R	**REQUIREMENT(C+D)**				2419.303
S	**% DEPENDENCE ON N.GRID**				86.70
T	**AUXILIARY CONSUMPTION OF GENERATING UNITS WITHIN DELHI**				17.736
U	**NET CONSUMPTION OF DELHI**				2393.296

9.6 Power supply position during the month of September 2010

Sr. NO.	DETAILS OF THE IMPORT FROM THE GRID INDICATING DIFFERENT SOURCES	Availability at Power Plant bus	Availability at Delhi periphery	Allocation made by NRLDC at Power Plant	Allocation Made by NRLDC at Delhi periphery
1	**SINGRAULI**	95.681	92.911	82.400	79.993
2	**RIHAND-I**	60.647	58.935	50.001	48.581
3	**RIHAND-II**	79.036	76.778	67.186	65.250
4	**UNCHAHAR-I**	16.894	16.405	9.218	8.945
5	**UNCHAHAR-II**	33.093	32.135	21.021	20.403
6	**UNCHAHAR-III**	2.462	2.395	1.926	1.873
7	**DADRI(TH)**	448.305	435.508	339.661	329.904
8	**DADRI(TH)- Stage-II**	535.863	520.557	282.202	273.827
9	**FARAKA**	13.141	12.761	10.404	10.099
10	**KHELGAON**	24.018	23.327	20.995	20.388
11	**KHELGAON-II**	73.920	71.818	59.062	57.360
12	**ANTA(GT)**	25.978	25.228	10.255	9.949
	ANTA(Liquid)	1.074	1.043	0.000	0.000
	ANTA(RLNG)	5.195	5.045	0.025	0.024
13	**AURAIYA(GT)**	30.360	29.483	12.047	11.687
	AURAIYA(Liquid)	9.586	9.320	0.000	0.000
	AURAIYA(RLNG)	10.217	9.911	0.051	0.050
14	**DADRI(GT)**	36.423	35.368	14.889	14.444
	DADRI(Liquid)	12.467	12.119	0.000	0.000
	DADRI (RLNG)	14.752	14.319	0.090	0.087
A.	**TOTAL NTPC (TOTAL 1 TO 14)**	**1529.112**	**1485.366**	**981.433**	**952.864**
15	**TANAKPUR**	7.745	7.521	7.745	7.521
16	**CHAMERA-I**	25.831	25.074	25.831	25.074
17	**CHAMERA-II**	24.100	23.400	24.100	23.400
18	**B/SUIL**	7.351	7.138	7.351	7.138
19	**SALAL**	45.874	44.531	45.874	44.531
20	**DULASTI**	34.484	33.481	34.484	33.481
21	**DAULI GANGA**	20.263	19.670	20.263	19.670
22	**URI(HEP)**	33.097	32.133	33.097	32.133
23	**SEWA -II**	9.077	8.816	9.077	8.816
B	**TOTAL NHPC (TOTAL 16 TO 23)**	**207.822**	**201.764**	**207.822**	**201.764**
25	**NAPP**	9.787	9.501	9.787	9.501
26	**RAPP 'B'**	1.276	1.240	1.276	1.240
27	**RAPP 'C'**	32.424	31.512	32.424	31.512
C	**TOTAL NPC (TOTAL 25 TO 27)**	**43.487**	**42.253**	**43.487**	**42.253**
D	**NATHPA JHAKHRI(SJVNL)**	109.719	106.546	109.719	106.546
E	**TALA**	21.774	21.145	21.774	21.145
F	**TALCHER**	0.000	0.000	0.000	0.000
G	**TEHRI**	73.993	71.837	73.993	71.837
H	**JHAJJAR**	0.000	0.000	0.000	0.000
	BILATERAL IMPORT				
(I)	**DVC**	46.181	44.955	43.312	42.067
(ii)	**MADHYA PRADESH**	169.549	161.980	153.547	149.127
(iii)	**TRIPURA**	10.828	10.541	10.192	9.897
(iv)	**WEST BENGAL**	18.133	17.650	17.057	16.565

Sr. NO.	DETAILS OF THE IMPORT FROM THE GRID INDICATING DIFFERENT SOURCES	Availability at Power Plant bus	Availability at Delhi periphery	Allocation made by NRLDC at Power Plant	Allocation Made by NRLDC at Delhi periphery
(v)	**CHATTISHGARH**	263.792	251.966	238.026	231.149
(vi)	**UTTRANCHAL**	24.482	23.757	24.482	23.757
(vii)	**ARUNACHAL PRADESH**	9.426	9.172	8.868	8.614
(viii)	**KARNATAKA**	23.962	22.864	21.844	21.204
(ix)	**MEGHALAYA**	16.844	16.397	15.854	15.396
(x)	**ORISSA**	39.011	37.977	36.339	35.288
(xi)	**ANDHRA PRADESH**	49.761	47.468	45.284	43.973
(xii)	**HIMACHAL PRADESH**	71.614	69.543	71.614	69.543
(xiii)	**UTTAR PRADESH**	16.550	16.071	16.550	16.071
(xiv)	**UNREQUISITIONED SURPLUS**	0.000	0.000	0.000	0.000
(xv)	**POWER EXCHANGE(IEX)**	0.000	0.000	0.000	0.000
(xvi)	**POWER EXCHANGE (PX)**	0.020	0.019	0.020	0.019
I	**TOTAL BILATERAL IMPORT**	760.153	730.360	702.989	682.670
(I)	**BILATERAL EXPORT**				
(ii)	**UTTAR PRADESH**	-4.914	-5.122	-4.914	-5.122
(iii)	**POWER EXCHANGE (IEX)**	-164.464	-169.323	-164.464	-169.323
(iv)	**TO POWER EXCHANGE (PX)**	-24.514	-25.259	-24.514	-25.259
J	**TOTAL BILATERAL EXPORT**	-193.892	-199.704	-193.892	-199.704
K	**TOTAL DRAWAL FROM THE NORTHERN GRID (A+B+C+D+E+F+G+H+I+J)**	2552.167	2459.567	1947.325	1879.375
L	**OVER DRAWL(+)/UNDER DRAWAL(-) FROM THE GRID**				-408.288
	AVAILABILITY FROM OWN SOURCES				
(I)	**RPH**				24.748
(ii)	**JAJJAR SHARE IN RPH**				0.660
(iii)	**NET GEN. AVAIL.FOR DELHI IN RPH**				24.088
(iv)	**GT**				78.862
(v)	**PRAGATI**				196.158
(vi)	**RITHALA**				0.000
M	**TOTAL AVAIL.FROM OWN SOURCES (3+4+5+6)**				299.108
N	**IMPORT FROM BTPS**				277.866
O	**TOTAL AVAILABILITY WITHIN DELHI(7+8)**				576.974
P	**TOTAL CONSUMPTION (B9+49A+50)**				2048.061
Q	**LOAD SHEDDING**				3.096
R	**REQUIREMENT(C+D)**				2051.157
S	**% DEPENDENCE ON N.GRID**				91.76
T	**AUXILIARY CONSUMPTION OF GENERATING UNITS WITHIN DELHI**				11.953
U	**NET CONSUMPTION OF DELHI**				2036.108

9.7 Power supply position during the month of October 2010

Sr. NO.	DETAILS OF THE IMPORT FROM THE GRID INDICATING DIFFERENT SOURCES	Availability at Power Plant bus	Availability at Delhi periphery	Allocation made by NRLDC at Power Plant	Allocation Made by NRLDC at Delhi periphery
1	**SINGRAULI**	108.080	104.731	105.377	102.106
2	**RIHAND-I**	74.992	72.678	73.091	70.831
3	**RIHAND-II**	93.825	90.927	91.324	88.498
4	**UNCHAHAR-I**	17.481	16.941	8.838	8.563
5	**UNCHAHAR-II**	33.323	32.295	17.519	16.972
6	**UNCHAHAR-III**	21.735	21.064	11.034	10.691
7	**DADRI(TH)**	534.729	518.211	395.137	382.913
8	**DADRI(TH)- Stage-II**	618.530	599.432	469.130	454.676
9	**FARAKA**	14.297	13.851	10.567	10.237
10	**KHELGAON**	26.463	25.641	21.487	20.825
11	**KHELGAON-II**	82.995	80.406	71.528	69.323
12	**ANTA(GT)**	25.477	24.692	6.736	6.528
	ANTA(Liquid)	0.000	0.000	0.000	0.000
	ANTA(RLNG)	6.535	6.335	0.167	0.161
13	**AURAIYA(GT)**	36.972	35.816	10.215	9.896
	AURAIYA(Liquid)	1.254	1.220	0.000	0.000
	AURAIYA(RLNG)	15.132	14.674	0.125	0.120
14	**DADRI(GT)**	46.208	44.771	12.853	12.454
	DADRI(Liquid)	0.464	0.452	0.000	0.000
	DADRI (RLNG)	20.180	19.564	0.241	0.233
A.	**TOTAL NTPC (TOTAL 1 TO 14)**	**1778.672**	**1723.701**	**1305.369**	**1265.027**
15	**TANAKPUR**	8.020	7.772	7.997	7.751
16	**CHAMERA-I**	10.075	9.769	10.075	9.769
17	**CHAMERA-II**	13.747	13.327	13.747	13.327
18	**B/SUIL**	4.045	3.921	4.045	3.921
19	**SALAL**	26.484	25.675	26.484	25.675
20	**DULASTI**	32.372	31.383	32.372	31.383
21	**DAULI GANGA**	17.125	16.608	17.125	16.608
22	**URI(HEP)**	18.144	17.590	18.144	17.590
23	**SEWA -II**	2.723	2.639	2.723	2.639
B	**TOTAL NHPC (TOTAL 16 TO 23)**	**132.735**	**128.684**	**132.712**	**128.663**
25	**NAPP**	21.599	20.930	21.599	20.930
26	**RAPP 'B'**	2.032	1.970	2.032	1.970
27	**RAPP 'C'**	37.227	36.074	37.227	36.074
C	**TOTAL NPC (TOTAL 25 TO 27)**	**60.858**	**58.974**	**60.858**	**58.974**
D	**NATHPA JHAKHRI(SJVNL)**	65.341	63.348	65.341	63.348
E	**TALA**	15.574	15.098	15.574	15.098
F	**TALCHER**	0.000	0.000	0.000	0.000
G	**TEHRI**	38.514	37.352	38.514	37.352
H	**JHAJJAR**	0.000	0.000	0.000	0.000
	BILATERAL IMPORT				
(I)	**DVC**	106.375	103.394	99.597	96.628
(ii)	**MADHYA PRADESH**	10.134	9.728	9.225	8.948
(iii)	**TAMILNADU**	33.309	31.542	30.891	30.020
(iv)	**KERALA**	52.955	50.116	49.624	48.219
(v)	**WEST BENGAL**	10.557	10.245	9.900	9.623

Sr. NO.	DETAILS OF THE IMPORT FROM THE GRID INDICATING DIFFERENT SOURCES	Availability at Power Plant bus	Availability at Delhi periphery	Allocation made by NRLDC at Power Plant	Allocation Made by NRLDC at Delhi periphery
(vi)	**CHATTISHGARH**	81.284	77.848	73.555	71.387
(vii)	**KARNATAKA**	2.548	2.397	2.287	2.217
(viii)	**MEGHALAYA**	4.212	4.090	3.951	3.839
(xxi)	**ANDHRA PRADESH**	45.261	42.831	40.836	39.678
(xxv)	**POWER EXCHANGE(IEX)**	0.000	0.000	0.000	0.000
(xxvi)	**POWER EXCHANGE (PX)**	0.000	0.000	0.000	0.000
I	**TOTAL BILATERAL IMPORT**	346.635	332.191	319.866	310.559
(I)	**BILATERAL EXPORT**				
(ii)	**RAJASTHAN**	-14.629	-15.130	-14.629	-15.130
(xvi)	**POWER EXCHANGE (IEX)**	-243.432	-251.035	-243.432	-251.035
(xvii)	**TO POWER EXCHANGE (PX)**	-11.994	-12.350	-11.994	-12.350
J	**TOTAL BILATERAL EXPORT**	-270.055	-278.515	-270.055	-278.515
K	**TOTAL DRAWAL FROM THE NORTHERN GRID (A+B+C+D+E+F+G+H+I+J)**	2168.274	2080.835	1668.180	1600.506
L	**OVER DRAWL(+)/UNDER DRAWAL(-) FROM THE GRID**				-347.245
	AVAILABILITY FROM OWN SOURCES				
(I)	**RPH**				30.412
(ii)	**JAJJAR SHARE IN RPH**				0.682
(iii)	**NET GEN. AVAIL.FOR DELHI IN RPH**				29.730
(iv)	**GT**				138.614
(v)	**PRAGATI**				176.935
(vi)	**RITHALA**				4.547
M	**TOTAL AVAIL.FROM OWN SOURCES (3+4+5+6)**				349.826
N	**IMPORT FROM BTPS**				363.470
O	**TOTAL AVAILABILITY WITHIN DELHI(7+8)**				713.296
P	**TOTAL CONSUMPTION (B9+49A+50)**				1966.557
Q	**LOAD SHEDDING**				1.769
R	**REQUIREMENT(C+D)**				1968.326
S	**% DEPENDENCE ON N.GRID**				81.39
T	**AUXILIARY CONSUMPTION OF GENERATING UNITS WITHIN DELHI**				13.900
U	**NET CONSUMPTION OF DELHI**				1952.657

9.8 Power supply position during the month of November 2010

Sr. NO.	DETAILS OF THE IMPORT FROM THE GRID INDICATING DIFFERENT SOURCES	Availability at Power Plant bus	Availability at Delhi periphery	Allocation made by NRLDC at Power Plant	Allocation Made by NRLDC at Delhi periphery
1	**SINGRAULI**	106.553	102.333	95.768	91.997
2	**RIHAND-I**	67.070	64.406	59.448	57.099
3	**RIHAND-II**	88.719	85.202	79.727	76.583
4	**UNCHAHAR-I**	16.849	16.180	8.674	8.323
5	**UNCHAHAR-II**	33.085	31.772	20.047	19.244
6	**UNCHAHAR-III**	20.380	19.571	12.162	11.673
7	**DADRI(TH)**	524.266	503.423	379.316	364.173
8	**DADRI(TH)- Stage-II**	410.688	395.225	210.545	202.608
9	**FARAKA**	14.628	14.049	10.042	9.644
10	**KHELGAON**	30.797	29.567	22.788	21.871
11	**KHELGAON-II**	85.629	82.254	63.886	61.347
12	**ANTA(GT)**	19.967	19.194	4.500	4.330
	ANTA(Liquid)	0.000	0.000	0.000	0.000
	ANTA(RLNG)	3.091	2.979	0.000	0.000
13	**AURAIYA(GT)**	38.730	37.207	13.833	13.273
	AURAIYA(Liquid)	1.104	1.054	0.000	0.000
	AURAIYA(RLNG)	9.304	8.936	0.028	0.026
14	**DADRI(GT)**	52.669	50.578	20.145	19.321
	DADRI(Liquid)	2.504	2.394	0.000	0.000
	DADRI (RLNG)	9.573	9.202	0.001	0.001
A.	**TOTAL NTPC (TOTAL 1 TO 14)**	**1535.606**	**1475.526**	**1000.910**	**961.513**
15	**TANAKPUR**	5.046	4.847	5.046	4.847
16	**CHAMERA-I**	5.784	5.554	5.784	5.554
17	**CHAMERA-II**	7.890	7.581	7.890	7.581
18	**B/SUIL**	2.382	2.282	2.382	2.288
19	**SALAL**	15.006	14.414	15.006	14.414
20	**DULASTI**	16.838	16.179	16.838	16.179
21	**DAULI GANGA**	8.012	7.698	8.012	7.698
22	**URI(HEP)**	12.584	12.090	12.584	12.090
23	**SEWA -II**	1.720	1.652	1.720	1.652
B	**TOTAL NHPC (TOTAL 16 TO 23)**	**75.262**	**72.297**	**75.262**	**72.303**
25	**NAPP**	21.030	20.196	21.030	20.196
26	**RAPP 'B'**	1.993	1.914	1.993	1.914
27	**RAPP 'C'**	35.506	34.093	35.506	34.093
C	**TOTAL NPC (TOTAL 25 TO 27)**	**58.529**	**56.203**	**58.529**	**56.203**
D	**NATHPA JHAKHRI(SJVNL)**	39.508	37.955	39.508	37.955
E	**TALA**	6.879	6.610	6.879	6.610
F	**TALCHER**	0.000	0.000	0.000	0.000
G	**TEHRI**	15.533	14.917	15.533	14.917
H	**JHAJJAR**	0.000	0.000	0.000	0.000
	BILATERAL IMPORT				
(I)	**DVC**	67.040	65.488	63.061	60.496
(ii)	**POWER EXCHANGE(IEX)**	0.000	0.000	0.000	0.000
(iii)	**POWER EXCHANGE (PX)**	0.000	0.000	0.000	0.000
I	**TOTAL BILATERAL IMPORT**	67.040	65.488	63.061	60.496

Sr. NO.	DETAILS OF THE IMPORT FROM THE GRID INDICATING DIFFERENT SOURCES	Availability at Power Plant bus	Availability at Delhi periphery	Allocation made by NRLDC at Power Plant	Allocation Made by NRLDC at Delhi periphery
(I)	**BILATERAL EXPORT**				
(ii)	**RAJASTHAN**	-21.925	-22.826	-21.925	-22.826
(iii)	**MAHARASHTRA**	-27.982	-29.378	-29.378	-30.595
(iv)	**MADHYA PRADESH**	-60.878	-63.917	-63.917	-66.681
(v)	**POWER EXCHANGE (IEX)**	-87.042	-90.542	-87.042	-90.542
(vi)	**TO POWER EXCHANGE (PX)**	-0.303	-0.315	-0.303	-0.315
J	**TOTAL BILATERAL EXPORT**	-198.130	-206.978	-202.565	-210.959
K	**TOTAL DRAWAL FROM THE NORTHERN GRID (A+B+C+D+E+F+G+H+I+J)**	1600.227	1522.022	1057.113	999.039
L	**OVER DRAWL(+)/UNDER DRAWAL(-) FROM THE GRID**				-65.242
	AVAILABILITY FROM OWN SOURCES				
(I)	**RPH**				84.624
(ii)	**JAJJAR SHARE IN RPH**				0.660
(iii)	**NET GEN. AVAIL.FOR DELHI IN RPH**				83.964
(iv)	**GT**				63.754
(v)	**PRAGATI**				186.350
(vi)	**RITHALA**				15.899
M	**TOTAL AVAIL.FROM OWN SOURCES (3+4+5+6)**				349.967
N	**IMPORT FROM BTPS**				268.112
O	**TOTAL AVAILABILITY WITHIN DELHI(7+8)**				618.079
P	**TOTAL CONSUMPTION (B9+49A+50)**				1551.876
Q	**LOAD SHEDDING**				0.870
R	**REQUIREMENT(C+D)**				1552.746
S	**% DEPENDENCE ON N.GRID**				64.38
T	**AUXILIARY CONSUMPTION OF GENERATING UNITS WITHIN DELHI**				16.935
U	**NET CONSUMPTION OF DELHI**				1534.941

9.9 Power supply position during the month of December 2010

Sr. NO.	DETAILS OF THE IMPORT FROM THE GRID INDICATING DIFFERENT SOURCES	Availability at Power Plant bus	Availability at Delhi periphery	Allocation made by NRLDC at Power Plant	Allocation Made by NRLDC at Delhi periphery
1	**SINGRAULI**	104.293	99.500	89.462	85.353
2	**RIHAND-I**	71.586	68.295	60.035	57.276
3	**RIHAND-II**	91.017	86.833	76.280	72.774
4	**UNCHAHAR-I**	17.206	16.415	12.834	12.244
5	**UNCHAHAR-II**	31.882	30.415	24.611	23.479
6	**UNCHAHAR-III**	20.962	19.999	16.032	15.296
7	**DADRI(TH)**	534.845	510.262	468.812	447.262
8	**DADRI(TH)- Stage-II**	144.759	137.918	140.823	134.166
9	**FARAKA**	14.217	13.562	11.448	10.920
10	**KHELGAON**	27.699	26.429	24.034	22.932
11	**KHELGAON-II**	86.722	82.733	81.755	77.996
12	**ANTA(GT)**	9.038	8.622	5.069	4.834
	ANTA(Liquid)	2.870	2.741	0.000	0.000
	ANTA(RLNG)	10.116	9.647	0.403	0.384
13	**AURAIYA(GT)**	36.948	35.248	27.601	26.332
	AURAIYA(Liquid)	0.233	0.223	0.000	0.000
	AURAIYA(RLNG)	15.968	15.235	1.793	1.711
14	**DADRI(GT)**	41.394	39.493	34.630	33.041
	DADRI(Liquid)	0.118	0.113	0.000	0.000
	DADRI (RLNG)	26.252	25.042	2.590	2.471
A.	**TOTAL NTPC (TOTAL 1 TO 14)**	**1288.125**	**1228.725**	**1078.212**	**1028.471**
15	**TANAKPUR**	3.400	3.244	3.400	3.244
16	**CHAMERA-I**	4.768	4.549	4.768	4.549
17	**CHAMERA-II**	5.536	5.282	5.536	5.282
18	**B/SUIL**	1.749	1.668	1.749	1.668
19	**SALAL**	11.224	10.709	11.224	10.709
20	**DULASTI**	12.525	11.950	12.525	11.950
21	**DAULI GANGA**	5.328	5.084	5.328	5.084
22	**URI(HEP)**	9.579	9.139	9.579	9.139
23	**SEWA -II**	0.835	0.797	0.835	0.797
B	**TOTAL NHPC (TOTAL 16 TO 23)**	**54.944**	**52.422**	**54.944**	**52.422**
25	**NAPP**	21.550	20.559	21.550	20.559
26	**RAPP 'B'**	2.075	1.980	2.075	1.980
27	**RAPP 'C'**	28.923	27.599	28.923	27.599
C	**TOTAL NPC (TOTAL 25 TO 27)**	**52.548**	**50.138**	**52.548**	**50.138**
D	**NATHPA JHAKHRI(SJVNL)**	27.687	26.417	27.687	26.417
E	**TALA**	3.327	3.174	3.327	3.174
F	**TALCHER**	0.000	0.000	0.000	0.000
G	**TEHRI**	9.318	8.898	9.318	8.898
H	**JHAJJAR**	0.000	0.000	0.000	0.000
	BILATERAL IMPORT				
(I)	**DVC**	52.762	51.507	49.578	47.300
(ii)	**UNREQUISITIONED SURPLUS**	0.410	0.391	0.410	0.391
(iii)	**POWER EXCHANGE(IEX)**	5.693	5.433	5.693	5.433
(iv)	**POWER EXCHANGE (PX)**	2.621	2.503	2.621	2.503
I	**TOTAL BILATERAL IMPORT**	61.486	59.834	58.302	55.627

Sr. NO.	DETAILS OF THE IMPORT FROM THE GRID INDICATING DIFFERENT SOURCES	Availability at Power Plant bus	Availability at Delhi periphery	Allocation made by NRLDC at Power Plant	Allocation Made by NRLDC at Delhi periphery
(I)	**BILATERAL EXPORT**				
(ii)	**RAJASTHAN**	-18.417	-19.306	-18.417	-19.306
(iii)	**KERALA**	-24.376	-26.218	-26.218	-27.482
(ix)	**MEGHALAYA**	-7.219	-7.458	-7.458	-7.817
(x)	**MADHYA PRADESH**	-83.390	-87.249	-87.249	-91.452
(xi)	**POWER EXCHANGE (IEX)**	-71.428	-74.888	-71.428	-74.888
(xii)	**TO POWER EXCHANGE (PX)**	-0.100	-0.105	-0.100	-0.105
J	**TOTAL BILATERAL EXPORT**	-204.930	-215.224	-210.870	-221.050
K	**TOTAL DRAWAL FROM THE NORTHERN GRID (A+B+C+D+E+F+G+H+I+J)**	1292.504	1214.381	1073.468	1004.095
L	**OVER DRAWL(+)/UNDER DRAWAL(-) FROM THE GRID**				-153.288
	AVAILABILITY FROM OWN SOURCES				
(I)	**RPH**				77.190
(ii)	**JAJJAR SHARE IN RPH**				0.682
(iii)	**NET GEN. AVAIL.FOR DELHI IN RPH**				76.508
(iv)	**GT**				165.508
(v)	**PRAGATI**				223.140
(vi)	**RITHALA**				18.826
M	**TOTAL AVAIL.FROM OWN SOURCES (3+4+5+6)**				483.982
N	**IMPORT FROM BTPS**				358.082
O	**TOTAL AVAILABILITY WITHIN DELHI(7+8)**				842.064
P	**TOTAL CONSUMPTION (B9+49A+50)**				1692.871
Q	**LOAD SHEDDING**				2.084
R	**REQUIREMENT(C+D)**				1694.955
S	**% DEPENDENCE ON N.GRID**				59.310
T	**AUXILIARY CONSUMPTION OF GENERATING UNITS WITHIN DELHI**				20.076
U	**NET CONSUMPTION OF DELHI**				1672.795

9.10 Power supply position during the month of January 2011

Sr. NO.	DETAILS OF THE IMPORT FROM THE GRID INDICATING DIFFERENT SOURCES	Availability at Power Plant bus	Availability at Delhi periphery	Allocation made by NRLDC at Power Plant	Allocation Made by NRLDC at Delhi periphery
1	**SINGRAULI**	108.661	103.403	99.692	94.864
2	**RIHAND-I**	68.664	65.331	62.983	59.923
3	**RIHAND-II**	91.386	86.964	83.743	79.689
4	**UNCHAHAR-I**	17.271	16.435	13.884	13.212
5	**UNCHAHAR-II**	33.303	31.692	27.035	25.726
6	**UNCHAHAR-III**	19.296	18.361	15.724	14.961
7	**DADRI(TH)**	521.491	496.261	459.616	437.382
8	**DADRI(TH)- Stage-II**	607.055	577.631	547.785	521.246
9	**FARAKA**	15.360	14.616	11.970	11.391
10	**KHELGAON**	27.508	26.182	23.651	22.509
11	**KHELGAON-II**	78.730	74.929	68.555	65.237
12	**ANTA(GT)**	19.689	18.735	12.892	12.264
	ANTA(Liquid)	3.196	3.044	0.067	0.063
	ANTA(RLNG)	8.949	8.513	1.005	0.954
13	**AURAIYA(GT)**	30.868	29.375	20.446	19.451
	AURAIYA(Liquid)	4.197	3.991	0.057	0.054
	AURAIYA(RLNG)	18.583	17.685	1.882	1.786
14	**DADRI(GT)**	38.121	36.277	26.238	24.961
	DADRI(Liquid)	8.697	8.284	0.090	0.086
	DADRI (RLNG)	22.084	21.008	2.213	2.100
A.	**TOTAL NTPC (TOTAL 1 TO 14)**	**1743.109**	**1658.717**	**1479.528**	**1407.859**
15	**TANAKPUR**	1.760	1.675	1.732	1.648
16	**CHAMERA-I**	4.475	4.259	4.475	4.259
17	**CHAMERA-II**	5.275	5.021	5.275	5.021
18	**B/SUIL**	1.662	1.582	1.662	1.582
19	**SALAL**	10.042	9.556	10.042	9.556
20	**DULASTI**	10.954	10.425	10.954	10.425
21	**DAULI GANGA**	4.302	4.094	4.302	4.094
22	**URI(HEP)**	10.054	9.570	10.054	9.570
23	**SEWA -II**	1.120	1.066	1.120	1.066
B	**TOTAL NHPC (TOTAL 16 TO 23)**	**49.644**	**47.248**	**49.616**	**47.221**
25	**NAPP**	23.023	21.908	23.023	21.908
26	**RAPP 'B'**	1.851	1.761	1.851	1.761
27	**RAPP 'C'**	35.869	34.145	35.869	34.145
C	**TOTAL NPC (TOTAL 25 TO 27)**	**60.743**	**57.814**	**60.743**	**57.814**
D	**NATHPA JHAKHRI(SJVNL)**	22.566	21.473	22.566	21.473
E	**TALA**	1.703	1.619	1.703	1.619
F	**TALCHER**	0.000	0.000	0.000	0.000
G	**TEHRI**	5.786	5.519	5.786	5.519
H	**JHAJJAR**	0.000	0.000	0.000	0.000

Sr. NO.	DETAILS OF THE IMPORT FROM THE GRID INDICATING DIFFERENT SOURCES	Availability at Power Plant bus	Availability at Delhi periphery	Allocation made by NRLDC at Power Plant	Allocation Made by NRLDC at Delhi periphery
	BILATERAL IMPORT				
(I)	**DVC**	46.087	44.868	43.169	41.062
(ii)	**MADHYA PRADESH**	0.022	0.021	0.020	0.019
(iii)	**MAHARASHTRA**	46.811	45.095	42.622	40.560
(iv)	**WEST BENGAL**	38.129	37.114	35.821	34.089
(v)	**ORISSA**	37.202	35.402	37.202	35.402
(vi)	**HIMACHAL PRADESH**	0.100	0.095	0.100	0.095
(vii)	**POWER EXCHANGE(IEX)**	4.657	4.420	4.657	4.420
(viii)	**POWER EXCHANGE (PX)**	0.556	0.528	0.556	0.528
I	**TOTAL BILATERAL IMPORT**	173.564	167.543	164.147	156.175
(I)	**BILATERAL EXPORT**				
(ii)	**RAJASTHAN**	-14.229	-14.943	-14.229	-14.943
(iii)	**ANDHRA PRADESH**	-1.248	-1.320	-1.320	-1.385
(iv)	**MEGHALAYA**	-7.241	-7.439	-7.439	-7.817
(v)	**MADHYA PRADESH**	-89.019	-92.405	-92.405	-97.103
(vi)	**UTTRANCHAL**	-104.607	-109.926	-104.607	-109.926
(vii)	**POWER EXCHANGE (IEX)**	-148.724	-156.160	-148.724	-156.160
(viii)	**TO POWER EXCHANGE (PX)**	-7.582	-7.956	-7.582	-7.956
J	**TOTAL BILATERAL EXPORT**	-372.650	-390.149	-376.306	-395.290
K	**TOTAL DRAWAL FROM THE NORTHERN GRID (A+B+C+D+E+F+G+H+I+J)**	1684.462	1569.782	1407.780	1302.387
L	**OVER DRAWL(+)/UNDER DRAWAL(-) FROM THE GRID**				-294.231
	AVAILABILITY FROM OWN SOURCES				
(I)	**RPH**				92.356
(ii)	**JAJJAR SHARE IN RPH**				0.682
(iii)	**NET GEN. AVAIL.FOR DELHI IN RPH**				91.674
(iv)	**GT**				131.597
(v)	**PRAGATI**				225.404
(vi)	**RITHALA**				16.827
M	**TOTAL AVAIL.FROM OWN SOURCES (3+4+5+6)**				465.502
N	**IMPORT FROM BTPS**				386.487
O	**TOTAL AVAILABILITY WITHIN DELHI(7+8)**				851.989
P	**TOTAL CONSUMPTION (B9+49A+50)**				1860.145
Q	**LOAD SHEDDING**				3.633
R	**REQUIREMENT(C+D)**				1863.778
S	**% DEPENDENCE ON N.GRID**				70.02
T	**AUXILIARY CONSUMPTION OF GENERATING UNITS WITHIN DELHI**				20.550
U	**NET CONSUMPTION OF DELHI**				1839.595

9.11 Power supply position during the month of February 2011

Sr. NO.	DETAILS OF THE IMPORT FROM THE GRID INDICATING DIFFERENT SOURCES	Availability at Power Plant bus	Availability at Delhi periphery	Allocation made by NRLDC at Power Plant	Allocation Made by NRLDC at Delhi periphery
1	**SINGRAULI**	95.116	91.139	84.794	81.252
2	**RIHAND-I**	64.848	62.138	58.423	55.984
3	**RIHAND-II**	80.542	77.183	72.539	69.515
4	**UNCHAHAR-I**	15.156	14.521	12.820	12.284
5	**UNCHAHAR-II**	30.150	28.890	25.808	24.730
6	**UNCHAHAR-III**	18.934	18.142	16.091	15.419
7	**DADRI(TH)**	470.198	450.548	427.162	409.325
8	**DADRI(TH)- Stage-II**	580.244	555.997	536.866	514.442
9	**FARAKA**	13.111	12.563	9.016	8.641
10	**KHELGAON**	19.702	18.882	18.269	17.508
11	**KHELGAON-II**	75.985	72.827	66.890	64.111
12	**ANTA(GT)**	19.811	18.983	10.560	10.121
	ANTA(Liquid)	3.010	2.885	0.018	0.017
	ANTA(RLNG)	7.906	7.575	0.091	0.087
13	**AURAIYA(GT)**	28.742	27.539	14.834	14.218
	AURAIYA(Liquid)	4.107	3.938	0.000	0.000
	AURAIYA(RLNG)	15.145	14.512	0.234	0.224
14	**DADRI(GT)**	35.483	33.998	18.140	17.385
	DADRI(Liquid)	5.881	5.639	0.000	0.000
	DADRI (RLNG)	17.130	16.413	0.194	0.186
A.	**TOTAL NTPC (TOTAL 1 TO 14)**	**1601.201**	**1534.312**	**1372.749**	**1315.449**
15	**TANAKPUR**	1.342	1.286	1.342	1.286
16	**CHAMERA-I**	6.992	6.695	6.992	6.695
17	**CHAMERA-II**	6.354	6.086	6.354	6.086
18	**B/SUIL**	3.982	3.813	3.982	3.813
19	**SALAL**	18.002	17.238	18.002	17.238
20	**DULASTI**	5.296	5.082	5.296	5.082
21	**DAULI GANGA**	3.664	3.511	3.664	3.511
22	**URI(HEP)**	23.694	22.699	23.694	22.699
23	**SEWA -II**	3.671	3.515	3.671	3.515
B	**TOTAL NHPC (TOTAL 16 TO 23)**	**72.997**	**69.925**	**72.997**	**69.925**
25	**NAPP**	20.352	19.502	20.352	19.502
26	**RAPP 'B'**	1.479	1.417	1.479	1.417
27	**RAPP 'C'**	34.327	32.889	34.327	32.889
C	**TOTAL NPC (TOTAL 25 TO 27)**	**56.158**	**53.808**	**56.158**	**53.808**
D	**NATHPA JHAKHRI(SJVNL)**	20.022	19.185	20.022	19.185
E	**TALA**	1.135	1.088	1.135	1.088
F	**TALCHER**	0.000	0.000	0.000	0.000
G	**TEHRI**	25.656	24.582	25.656	24.582
H	**JHAJJAR**	0.000	0.000	0.000	0.000
	BILATERAL IMPORT				
(I)	**DVC**	32.445	31.584	30.401	29.120
(ii)	**POWER EXCHANGE(IEX)**	0.793	0.761	0.793	0.761
(iii)	**POWER EXCHANGE (PX)**	0.000	0.000	0.000	0.000
I	**TOTAL BILATERAL IMPORT**	33.238	32.345	31.194	29.881

Sr. NO.	DETAILS OF THE IMPORT FROM THE GRID INDICATING DIFFERENT SOURCES	Availability at Power Plant bus	Availability at Delhi periphery	Allocation made by NRLDC at Power Plant	Allocation Made by NRLDC at Delhi periphery
(I)	**BILATERAL EXPORT**				
(ii)	**RAJASTHAN**	-65.027	-67.875	-65.027	-67.875
(iii)	**UTTAR PRADESH**	-22.500	-23.492	-22.500	-23.492
(iv)	**KERALA**	-0.093	-0.099	-0.099	-0.103
(v)	**MEGHALAYA**	-6.173	-6.343	-6.343	-6.619
(vi)	**HIMACHAL PRADESH**	-1.456	-1.517	-1.456	-1.517
(vii)	**MADHYA PRADESH**	-80.854	-83.725	-83.725	-87.377
(viii)	**WEST BENGAL**	-23.166	-23.801	-23.801	-24.840
(ix)	**UTTRANCHAL**	-118.007	-123.164	-118.007	-123.164
(x)	**HARYANA**				
(xi)	**POWER EXCHANGE (IEX)**	-191.519	-199.874	-191.519	-199.874
(xii)	**TO POWER EXCHANGE (PX)**	-14.632	-15.272	-14.632	-15.272
J	**TOTAL BILATERAL EXPORT**	-523.427	-545.162	-527.109	-550.133
K	**TOTAL DRAWAL FROM THE NORTHERN GRID (A+B+C+D+E+F+G+H+I+J)**	1286.976	1190.087	1052.799	963.787
L	**OVER DRAWL(+)/UNDER DRAWAL(-) FROM THE GRID**				-183.669
	AVAILABILITY FROM OWN SOURCES				
(I)	**RPH**				67.210
(ii)	**JAJJAR SHARE IN RPH**				0.616
(iii)	**NET GEN. AVAIL.FOR DELHI IN RPH**				66.594
(iv)	**GT**				104.988
(v)	**PRAGATI**				204.543
(vi)	**RITHALA**				12.461
M	**TOTAL AVAIL.FROM OWN SOURCES (3+4+5+6)**				388.586
N	**IMPORT FROM BTPS**				371.715
O	**TOTAL AVAILABILITY WITHIN DELHI(7+8)**				760.301
P	**TOTAL CONSUMPTION (B9+49A+50)**				1540.419
Q	**LOAD SHEDDING**				1.149
R	**REQUIREMENT(C+D)**				1541.568
S	**% DEPENDENCE ON N.GRID**				62.57
T	**AUXILIARY CONSUMPTION OF GENERATING UNITS WITHIN DELHI**				16.241
U	**NET CONSUMPTION OF DELHI**				1524.178

9.12 Power supply position during the month of March 2011

Sr. NO.	DETAILS OF THE IMPORT FROM THE GRID INDICATING DIFFERENT SOURCES	Availability at Power Plant bus	Availability at Delhi periphery	Allocation made by NRLDC at Power Plant	Allocation Made by NRLDC at Delhi periphery
1	**SINGRAULI**	103.735	100.087	97.329	93.911
2	**RIHAND-I**	71.769	69.245	66.292	63.963
3	**RIHAND-II**	91.263	88.054	84.433	81.466
4	**UNCHAHAR-I**	10.830	10.442	9.205	8.876
5	**UNCHAHAR-II**	33.307	32.136	29.464	28.431
6	**UNCHAHAR-III**	20.947	20.210	18.383	17.738
7	**DADRI(TH)**	524.616	506.162	484.160	467.136
8	**DADRI(TH)- Stage-II**	556.827	537.134	525.592	507.016
9	**FARAKA**	13.372	12.899	9.625	9.286
10	**KHELGAON**	29.542	28.505	25.764	24.864
11	**KHELGAON-II**	102.275	98.681	89.874	86.731
12	**ANTA(GT)**	19.873	19.172	11.905	11.484
	ANTA(Liquid)	1.214	1.172	0.079	0.077
	ANTA(RLNG)	10.981	10.594	1.016	0.981
13	**AURAIYA(GT)**	32.400	31.259	19.960	19.258
	AURAIYA(Liquid)	4.579	4.414	0.067	0.065
	AURAIYA(RLNG)	15.166	14.636	1.419	1.370
14	**DADRI(GT)**	45.132	43.549	27.693	26.722
	DADRI(Liquid)	2.304	2.220	0.024	0.023
	DADRI (RLNG)	18.747	18.084	1.610	1.554
A.	**TOTAL NTPC (TOTAL 1 TO 14)**	**1708.879**	**1648.655**	**1503.894**	**1450.952**
15	**TANAKPUR**	1.396	1.347	1.396	1.347
16	**CHAMERA-I**	13.470	12.999	13.470	12.999
17	**CHAMERA-II**	10.367	10.008	10.367	10.008
18	**B/SUIL**	9.282	8.960	9.282	8.960
19	**SALAL**	28.383	27.393	28.383	27.393
20	**DULASTI**	14.005	13.519	14.005	13.519
21	**DAULI GANGA**	4.891	4.721	4.891	4.721
22	**URI(HEP)**	37.741	36.414	37.741	36.414
23	**SEWA -II**	11.190	10.798	11.190	10.798
B	**TOTAL NHPC (TOTAL 16 TO 23)**	**130.725**	**126.159**	**130.725**	**126.159**
25	**NAPP**	20.750	20.017	20.750	20.017
26	**RAPP 'B'**	1.505	1.451	1.505	1.451
27	**RAPP 'C'**	39.959	38.553	39.959	38.553
C	**TOTAL NPC (TOTAL 25 TO 27)**	**62.214**	**60.021**	**62.214**	**60.021**
D	**NATHPA JHAKHRI(SJVNL)**	26.237	25.323	26.237	25.323
E	**TALA**	0.792	0.764	0.792	0.764
F	**TALCHER**	0.000	0.000	0.000	0.000
G	**TEHRI**	32.558	31.414	32.558	31.414
H	**JHAJJAR**	52.078	50.295	52.078	50.295
	BILATERAL IMPORT				
(I)	**DVC**	35.489	34.644	33.371	32.206
(ii)	**POWER EXCHANGE(IEX)**	2.105	2.031	2.105	2.031
(iii)	**POWER EXCHANGE (PX)**	0.000	0.000	0.000	0.000
I	**TOTAL BILATERAL IMPORT**	37.594	36.675	35.476	34.237

Sr. NO.	DETAILS OF THE IMPORT FROM THE GRID INDICATING DIFFERENT SOURCES	Availability at Power Plant bus	Availability at Delhi periphery	Allocation made by NRLDC at Power Plant	Allocation Made by NRLDC at Delhi periphery
(I)	**BILATERAL EXPORT**				
(ii)	**RAJASTHAN**	-4.006	-4.150	-4.006	-4.150
(iii)	**UTTAR PRADESH**	-17.744	-18.415	-17.744	-18.415
(iv)	**ANDHRA PRADESH**	-88.057	-90.666	-90.666	-93.968
(v)	**KERALA**	-45.920	-48.420	-48.420	-50.184
(vi)	**GOA**	-21.233	-22.067	-22.067	-22.864
(vii)	**TAMILNADU**	-1.149	-1.207	-1.207	-1.251
(viii)	**MEGHALAYA**	-17.013	-17.677	-17.677	-18.321
(ix)	**MADHYA PRADESH**	-0.140	-0.145	-0.145	-0.150
(x)	**WEST BENGAL**	-62.559	-64.169	-64.169	-66.574
(xi)	**HARYANA**	-0.202	-0.210	-0.202	-0.210
(xii)	**POWER EXCHANGE (IEX)**	-249.860	-258.945	-249.860	-258.945
(xiii)	**TO POWER EXCHANGE (PX)**	-28.458	-29.503	-28.458	-29.503
J	**TOTAL BILATERAL EXPORT**	-536.341	-555.574	-544.621	-564.535
K	**TOTAL DRAWAL FROM THE NORTHERN GRID (A+B+C+D+E+F+G+H+I+J)**	1514.736	1423.732	1299.352	1214.629
L	**OVER DRAWL(+)/UNDER DRAWAL(-) FROM THE GRID**				-213.731
	AVAILABILITY FROM OWN SOURCES				
(I)	**RPH**				86.464
(ii)	**JAJJAR SHARE IN RPH**				0.682
(iii)	**NET GEN. AVAIL.FOR DELHI IN RPH**				85.782
(iv)	**GT**				114.357
(v)	**PRAGATI**				59.823
(vi)	**RITHALA**				20.243
M	**TOTAL AVAIL.FROM OWN SOURCES (3+4+5+6)**				280.205
N	**IMPORT FROM BTPS**				403.893
O	**TOTAL AVAILABILITY WITHIN DELHI(7+8)**				684.098
P	**TOTAL CONSUMPTION (B9+49A+50)**				1684.996
Q	**LOAD SHEDDING**				1.525
R	**REQUIREMENT(C+D)**				1686.521
S	**% DEPENDENCE ON N.GRID**				72.08
T	**AUXILIARY CONSUMPTION OF GENERATING UNITS WITHIN DELHI**				14.971
U	**NET CONSUMPTION OF DELHI**				1670.025

9.13 Consolidated Power Supply Position for 2010-11

All figures in MUs

Sr. NO.	DETAILS OF THE IMPORT FROM THE GRID INDICATING DIFFERENT SOURCES	Availability at Power Plant bus	Availability at Delhi periphery	Allocation made by NRLDC at Power Plant	Allocation Made by NRLDC at Delhi periphery
1	**SINGRAULI**	1233.583	1189.067	1162.261	1120.532
2	**RIHAND-I**	751.666	724.365	700.349	675.045
3	**RIHAND-II**	1061.872	1023.607	999.820	963.997
4	**UNCHAHAR-I**	194.037	187.027	152.046	146.543
5	**UNCHAHAR-II**	386.351	372.425	312.352	301.080
6	**UNCHAHAR-III**	225.470	217.233	185.069	178.332
7	**DADRI(TH)**	5979.882	5763.459	5220.782	5031.650
8	**DADRI(TH)- Stage-II**	5055.877	4873.992	4207.619	4054.307
9	**FARAKA**	158.524	152.958	130.268	125.568
10	**KHELGAON**	305.668	295.064	271.835	262.041
11	**KHELGAON-II**	876.559	845.697	785.936	757.255
12	**ANTA(GT)**	234.923	226.635	148.388	143.168
	ANTA(Liquid)	12.233	11.724	0.172	0.165
	ANTA(RLNG)	97.861	94.316	13.971	13.491
13	**AURAIYA(GT)**	395.852	381.575	264.173	254.653
	AURAIYA(Liquid)	29.133	28.098	0.135	0.130
	AURAIYA(RLNG)	173.688	167.360	24.163	23.312
14	**DADRI(GT)**	512.881	494.457	355.761	342.987
	DADRI(Liquid)	38.680	37.251	0.139	0.133
	DADRI (RLNG)	201.599	194.144	22.271	21.463
A.	**TOTAL NTPC (TOTAL 1 TO 14)**	17926.339	17280.454	14957.510	14415.852
15	**TANAKPUR**	54.836	52.979	56.570	54.657
16	**CHAMERA-I**	189.877	183.567	189.947	183.636
17	**CHAMERA-II**	199.153	192.528	199.289	192.660
18	**B/SUIL**	77.416	74.806	77.319	74.718
19	**SALAL**	376.513	363.866	374.659	362.079
20	**DULASTI**	290.150	280.429	290.268	280.543
21	**DAULI GANGA**	153.154	148.075	152.547	147.487
22	**URI(HEP)**	332.823	321.485	333.054	321.708
23	**SEWA -II**	50.425	48.719	49.092	47.430
B	**TOTAL NHPC (TOTAL 16 TO 23)**	1724.347	1666.454	1722.745	1664.918
25	**NAPP**	178.884	172.085	178.884	172.084
26	**RAPP 'B'**	19.359	18.650	19.358	18.649
27	**RAPP 'C'**	332.591	320.354	332.244	320.018
C	**TOTAL NPC (TOTAL 25 TO 27)**	530.834	511.089	530.486	510.751
D	**NATHPA JHAKHRI(SJVNL)**	687.712	664.827	687.673	664.789
E	**TALA**	115.236	111.574	114.765	111.034
F	**TALCHER**	0.000	0.000	0.000	0.000
G	**TEHRI**	327.768	316.793	327.714	316.741
H	**JHAJJAR**	52.078	50.295	52.078	50.295
	BILATERAL IMPORT				
(I)	**DVC**	638.431	622.719	603.716	582.220
(ii)	**RASJASTHAN**	50.679	47.356	47.724	46.165

Sr. NO.	DETAILS OF THE IMPORT FROM THE GRID INDICATING DIFFERENT SOURCES	Availability at Power Plant bus	Availability at Delhi periphery	Allocation made by NRLDC at Power Plant	Allocation Made by NRLDC at Delhi periphery
(iii)	**GUJRAT**	66.888	63.172	61.278	59.285
(iv)	**MADHYA PRADESH**	718.410	682.203	651.304	630.630
(v)	**HARYANA**	10.432	10.075	10.432	10.075
(vi)	**MAHARASHTRA**	101.020	96.291	91.544	87.832
(vii)	**SIKKIM**	86.385	84.494	84.433	81.738
(viii)	**NAGALAND**	45.789	44.743	43.224	41.816
(ix)	**TAMILNADU**	63.346	60.301	59.064	57.285
(x)	**TRIPURA**	33.210	32.394	31.327	30.333
(xi)	**KERALA**	52.955	50.116	49.624	48.219
(xii)	**DVC (TATA STEEEL)**	1.921	1.875	1.801	1.740
(xiii)	**WEST BENGAL**	150.975	147.245	142.781	137.650
(xiv)	**CHATTISHGARH**	2401.268	2275.709	2175.584	2105.696
(xv)	**UTTRANCHAL**	156.955	151.925	156.955	151.925
(xvi)	**ARUNACHAL PRADESH**	58.390	57.027	55.115	53.350
(xvii)	**KARNATAKA**	90.282	86.247	82.288	79.653
(xviii)	**MEGHALAYA**	66.565	64.922	62.780	60.789
(xix)	**ORISSA**	260.509	253.449	246.101	237.606
(xx)	**PUNJAB**	72.644	66.988	67.571	65.385
(xxi)	**ANDHRA PRADESH**	311.214	296.976	282.086	273.240
(xxii)	**HIMACHAL PRADESH**	409.222	396.194	409.222	396.194
(xxiii)	**UTTAR PRADESH**	96.661	92.316	94.568	91.529
(xxiv)	**UNREQUISITIONED SURPLUS**	1.357	1.307	1.357	1.307
(xxv)	**POWER EXCHANGE(IEX)**	45.809	44.168	45.809	44.168
(xxvi)	**POWER EXCHANGE (PX)**	17.004	16.413	17.004	16.413
I	**TOTAL BILATERAL IMPORT**	6008.321	5746.625	5574.692	5392.243
(I)	**BILATERAL EXPORT**				
(ii)	**RAJASTHAN**	-139.741	-145.787	-139.741	-145.787
(iii)	**UTTAR PRADESH**	-233.462	-241.655	-233.462	-241.655
(iv)	**ANDHRA PRADESH**	-90.272	-92.974	-92.974	-96.374
(v)	**KARNATAKA**	-4.554	-4.701	-4.321	-4.467
(vi)	**KERALA**	-119.754	-125.360	-125.360	-130.124
(vii)	**GOA**	-21.233	-22.067	-22.067	-22.864
(viii)	**TAMILNADU**	-1.149	-1.207	-1.207	-1.251
(ix)	**MEGHALAYA**	-39.320	-40.630	-40.630	-42.347
(x)	**HIMACHAL PRADESH**	-1.456	-1.517	-1.456	-1.517
(xi)	**MAHARASHTRA**	-30.090	-31.571	-31.571	-32.861
(xii)	**MADHYA PRADESH**	-341.990	-356.672	-356.672	-372.943
(xiii)	**WEST BENGAL**	-102.109	-104.749	-104.749	-108.770
(xiv)	**UTTRANCHAL**	-223.818	-234.331	-223.818	-234.331
(xv)	**HARYANA**	-0.893	-0.924	-0.893	-0.924
(xvi)	**POWER EXCHANGE (IEX)**	-2022.628	-2096.243	-2032.961	-2106.896
(xvii)	**TO POWER EXCHANGE (PX)**	-116.692	-120.831	-116.692	-120.831
J	**TOTAL BILATERAL EXPORT**	-3489.161	-3621.219	-3528.574	-3663.942
K	**TOTAL DRAWAL FROM THE NORTHERN GRID (A+B+C+D+E+F+G+H+I+J)**	23883.460	22726.902	20439.075	19462.681
L	**OVER DRAWL(+)/UNDER DRAWAL(-) FROM THE GRID**				**-3444.816**

Sr. NO.	DETAILS OF THE IMPORT FROM THE GRID INDICATING DIFFERENT SOURCES	Allocation made by NRLDC at Periphery
	AVAILABILITY FROM OWN SOURCES	
(I)	**RPH**	**781.421**
(ii)	**JAJJAR SHARE IN RPH**	**8.029**
(iii)	**NET GEN. AVAIL.FOR DELHI IN RPH**	**773.391**
(iv)	**GT**	**1367.623**
(v)	**PRAGATI**	**2335.544**
(vi)	**RITHALA**	**88.802**
M	**TOTAL AVAIL.FROM OWN SOURCES (3+4+5+6)**	**4565.363**
N	**IMPORT FROM BTPS**	**4154.923**
O	**TOTAL AVAILABILITY WITHIN DELHI(7+8)**	**8720.287**
P	**TOTAL CONSUMPTION (B9+49A+50)**	**24638.152**
Q	**LOAD SHEDDING**	**74.280**
R	**REQUIREMENT(C+D)**	**24712.433**
S	**% DEPENDENCE ON N.GRID**	**927.364**
T	**AUXILIARY CONSUMPTION OF GENERATING UNITS WITHIN DELHI**	**201.325**
U	**NET CONSUMPTION OF DELHI**	**24436.827**

9.14 LOAD SHEDDING DETAILS FOR 2010-11

Month	Number of Under Frequency Trippings	Load shedding due to under Frequency Relay Operation				
		BYPL	BRPL	NDPL	NDMC	Total
Apr 2010	571	2.016	4.223	3.013	0.000	**9.252**
May 2010	15	0.048	0.098	0.058	0.000	**0.204**
Jun 2010	6	0.008	0.023	0.012	0.000	**0.043**
July 2010	22	0.038	0.037	0.050	0.000	**0.125**
Aug. 2010	16	0.013	0.038	0.040	0.000	**0.091**
Sept 2010	14	0.022	0.020	0.006	0.000	**0.048**
Oct. 2010	0	0.000	0.000	0.000	0.000	**0.000**
Nov. 2010	0	0.000	0.000	0.000	0.000	**0.000**
Dec. 2010	0	0.000	0.000	0.000	0.000	**0.000**
Jan. 2011	0	0.000	0.000	0.000	0.000	**0.000**
Feb. 2011	2	0.000	0.003	0.001	0.000	**0.004**
Mar. 2011	0	0.000	0.000	0.000	0.000	**0.000**
TOTAL	**646**	**2.145**	**4.442**	**3.180**	**0.000**	**9.767**

Months	**Load Shedding due to Grid Restriction**							
	To restrict over drawal at low frequency and low voltage				**Due to TTC / ATC Violation**			
	BYPL	BRPL	NDPL	NDMC	BYPL	BRPL	NDPL	NDMC
Apr 2010	0.000	0.000	1.317	0.015	0.000	0.000	0.000	0.000
May 2010	0.143	0.183	0.562	0.000	0.000	0.000	0.000	0.000
Jun 2010	0.219	0.128	0.138	0.000	0.000	0.000	0.000	0.000
July 2010	0.000	0.041	0.168	0.000	0.000	0.000	0.000	0.000
Aug. 2010	0.082	0.000	0.989	0.000	0.000	0.000	0.000	0.000
Sept 2010	0.000	0.010	0.197	0.000	0.000	0.000	0.000	0.000
Oct. 2010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Nov. 2010	0.000	0.000	0.005	0.000	0.000	0.000	0.000	0.000
Dec. 2010	0.000	0.307	0.156	0.000	0.000	0.000	0.000	0.000
Jan. 2011	0.131	0.854	0.988	0.000	0.000	0.000	0.000	0.000
Feb. 2011	0.000	0.158	0.082	0.000	0.000	0.000	0.000	0.000
Mar. 2011	0.000	0.097	0.230	0.000	0.000	0.000	0.000	0.000
TOTAL	**0.575**	**1.778**	**4.832**	**0.015**	0.000	0.000	0.000	0.000

Month	Load Shedding due to Transmission Constraints in Central Sector Transmission System				Total	Total Shedding due to Grid Restrictions
	BYPL	BRPL	NDPL	NDMC		
Apr 2010	0.000	0.000	0.000	0.000	1.332	**10.584**
May 2010	0.000	0.000	0.000	0.000	0.888	**1.092**
Jun 2010	0.000	0.000	0.000	0.000	0.485	**0.528**
July 2010	0.013	0.000	0.014	0.000	0.236	**0.361**
Aug. 2010	0.000	0.000	0.000	0.000	1.071	**1.162**
Sept 2010	0.000	0.000	0.000	0.000	0.207	**0.255**
Oct. 2010	0.000	0.000	0.000	0.000	0.000	**0.000**
Nov. 2010	0.000	0.000	0.000	0.000	0.005	**0.005**
Dec. 2010	0.000	0.000	0.000	0.000	0.463	**0.463**
Jan. 2011	0.000	0.000	0.070	0.000	2.043	**2.043**
Feb. 2011	0.000	0.000	0.000	0.000	0.240	**0.244**
Mar. 2011	0.000	0.000	0.000	0.000	0.327	**0.327**
TOTAL	**0.013**	**0.000**	**0.084**	**0.000**	**7.297**	**17.064**

Month	Load Shedding due to Trippings / Break-downs / Shut-downs / Constraints in DTL System					Total
	BYPL	BRPL	NDPL	NDMC	MES	
Apr 2010	0.713	3.196	0.468	0.025	0.000	**4.402**
May 2010	0.327	3.112	0.822	0.130	0.022	**4.413**
Jun 2010	1.010	2.668	1.969	0.023	0.000	**5.670**
July 2010	1.729	1.856	0.694	0.501	0.000	**4.780**
Aug. 2010	0.851	1.464	0.322	0.024	0.000	**2.661**
Sept 2010	0.433	0.720	0.178	0.174	0.000	**1.505**
Oct. 2010	0.128	0.501	0.077	0.007	0.000	**0.713**
Nov. 2010	0.021	0.082	0.024	0.004	0.000	**0.131**
Dec. 2010	0.202	0.058	0.091	0.001	0.000	**0.352**
Jan. 2011	0.067	0.115	0.144	0.011	0.000	**0.337**
Feb. 2011	0.000	0.196	0.016	0.000	0.000	**0.212**
Mar. 2011	0.029	0.359	0.144	0.000	0.000	**0.532**
TOTAL	5.510	**14.327**	**4.949**	**0.900**	**0.022**	**25.708**

Months	Load shedding due to Constraints in Discoms System				Load shedding due to Shut-downs / Break-downs / Trippings in the System of other utilities				
	BYPL	BRPL	NDPL	NDMC	BYPL	BRPL	NDPL	NDMC	Total
Apr 2010	0.509	2.205	0.852	0.852	0.003	0.000	0.096	0.000	**0.099**
May 2010	0.973	2.824	0.683	0.683	0.170	1.625	0.079	0.000	**1.874**
Jun 2010	0.972	2.020	0.500	0.040	0.171	0.421	0.010	0.000	**0.602**
July 2010	1.016	2.133	0.779	0.000	0.124	0.051	0.031	0.000	**0.206**
Aug. 2010	0.836	2.360	0.803	0.000	0.091	0.287	0.071	0.000	**0.449**
Sept 2010	0.529	0.444	0.274	0.000	0.032	0.035	0.022	0.000	**0.089**
Oct. 2010	0.320	0.482	0.243	0.000	0.003	0.004	0.004	0.000	**0.011**
Nov. 2010	0.296	0.224	0.185	0.000	0.000	0.029	0.000	0.000	**0.029**
Dec. 2010	0.123	0.296	0.250	0.000	0.000	0.000	0.001	0.000	**0.001**
Jan. 2011	0.580	0.422	0.249	0.001	0.000	0.000	0.001	0.000	**0.001**
Feb. 2011	0.150	0.144	0.396	0.001	0.000	0.000	0.002	0.000	**0.002**
Mar.2011	0.150	0.258	0.258	0.000	0.000	0.000	0.000	0.000	**0.000**
TOTAL	6.454	13.812	**5.472**	**1.577**	**0.594**	**2.452**	**0.317**	**0.000**	**3.363**

Month	Load shedding carried out in theft prone areas			Total shedding due to T& D Constraints	Total Load Shedding	Net Consumption	Max Demand met in MW	Date	Time in Hrs.
	BYPL	BRPL	NDPL						
Apr 2010	0.000	0.000	1.714	**10.633**	**21.217**	2250.117	4116	29.04.10	15:16
May 2010	0.000	0.000	0.030	**11.480**	**12.572**	2531.932	4581	24.05.10	14:52:39
Jun 2010	0.000	0.023	0.000	**9.827**	**10.355**	2473.955	4668	21.06.10	15:34:02
July 2010	0.000	0.000	0.000	**8.914**	**9.275**	2557.228	4720	01.07.10	16:10:13
Aug. 2010	0.000	0.000	0.000	**7.109**	**8.271**	2393.296	4424	11.08.10	15:27:02
Sept 2010	0.000	0.000	0.000	**2.841**	**3.096**	2036.108	4057	01:09:10	15:06:40
Oct. 2010	0.000	0.000	0.000	**1.769**	**1.769**	1952.657	3683	07.10.10	18:34:17
Nov. 2010	0.000	0.000	0.000	**0.865**	**0.870**	1534.941	3231	02:11:10	18:45:05
Dec. 2010	0.000	0.000	0.599	**1.621**	**2.084**	1672.795	3471	27.12.10	09:35:25
Jan. 2011	0.000	0.000	0.000	**1.590**	**3.633**	1839.595	4111	10.01.11	10:31:41
Feb. 2011	0.000	0.000	0.000	**0.905**	**1.149**	1524.178	3306	04.02.11	10:01:26
Mar.2011	0.000	0.000	0.000	**1.198**	**1.525**	1670.025	3412	29.03.2011	19:25:18
TOTAL	0.000	0.023	**2.343**	**58.752**	**75.816**	**24436.827**	**4720 MaX**	01.07.10	16:10:13

Month	Shedding at the time of Peak Demand	Un-restricted Demand	Maximum Un-restricted Demand in MW	Date	Time	Demand at that Time	Shedding at that time
Apr 2010	8	**4124**	**4131**	22.04.10	15:04:12	4110	21
May 2010	45	**4626**	**4626**	24.05.10	14:52:39	4581	45
Jun 2010	71	**4739**	**4809**	24.06.10	15:29:24	4644	165
July 2010	13	**4733**	**4733**	01.07.10	16:10:13	4720	13
Aug. 2010	102	**4526**	**4526**	11.08.10	15:27:02	4424	102
Sept 2010	28	**4085**	**4085**	01.09.10	15:06:40	4057	28
Oct. 2010	0	**3683**	**3683**	07.10.10	18:34:17	3683	0
Nov. 2010	3	**3234**	**3234**	02:11:10	18:45:05	3231	3
Dec. 2010	0	**3471**	**3471**	27:12:10	09:35:25	3471	0
Jan. 2011	3	**4114**	**4114**	10.01.11	10:31:41	4111	3
Feb. 2011	0	**3306**	**3306**	04.02.11	10:01:26	3306	0
Mar.2011	6	**3418**	**3418**	26.03.11	19:25:18	3412	6
Max			**4809 MaX**	24.06.10	15:29:24	4644	165

9.15 DEMAND - AVAILABILITY-DEMAND POSITION OF DELHI AT THE TIME OF PEAK DEMAND MET DURING 2010-11

Month	Date	Time of peak demand		Generation within Delhi						Import from the Grid	Schedule from the Grid	OD (-) / UD (+)	Demand met	Shedding	Un-Restricted Demand
			Rithala	RPH	GT	PPCL	BTPS		Total						
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)= (3) to (8)	(10)	(11)	(12)= (11) - (10)	(13)= (11)+ (12)	(14)	(15)= (13)+ (14)
Apr 10	29	15:16:00	0	63	170	280	556	0	1069	3047	2974	-73	4116	8	4124
May 10	24	14:52:39	0	61	156	272	530	0	1019	3562	3429	-133	4581	45	4626
Jun 10	21	15:34:02	0	62	186	270	576	0	1094	3574	3830	256	4668	71	4739
July 10	1	16:10:13	0	61	209	278	507	0	1055	3665	4081	416	4720	13	4733
Aug. 10	11	15:27:02	0	123	181	287	427	0	1018	3406	3345	-61	4424	102	4526
Sept 10	1	15:06:40	0	119	144	274	485	0	1022	3035	3377	342	4057	28	4085
Oct. 10	7	18:34:17	0	0	234	299	539	0	1072	2611	3254	643	3683	0	3683
Nov. 10	2	18:45:05	20	121	82	145	391	0	759	2472	2286	-186	3231	3	3234
Dec. 10	27	09:35:25	10	117	155	139	602	0	1023	2448	2108	-340	3471	0	3471
Jan. 11	10	10:31:41	28	112	187	314	627	0	1268	2843	2668	-175	4111	3	4114
Feb. 11	4	10:01:26	17	113	160	314	620	0	1224	2082	2157	75	3306	0	3306
Mar. 11	29	19:25:18	27	111	154	102	595	0	989	2423	2297	-126	3412	6	3418
Max	1	16:10:13	0	61	209	278	507	0	1055	3665	4081	416	4720	13	4733

9.16 POWER AVAILABILITY- DEMAND POSITION AT THE TIME OF OCCURRENCE OF MAXIMUM UNRESTRICTED DEMAND DURING 2010-11

Month	Date	Time of peak demand	Generation within Delhi							Import from the Grid	Schedule from the Grid	OD (-) / UD (+)	Demand met	Shedding	Un-Restricted Demand
			Rithala	RPH	GT	PPCL	BTPS	Bawana	Total						
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)= (3) to (8)	(10)	(11)	(12)= (11) - (10)	(13)= (11)+ (12)	(14)	(15)= (13)+ (14)
Apr 10	22	15:04:12	0	62	165	277	590	0	1094	3016	3116	100	4110	21	4131
May 10	24	14:52:39	0	61	156	272	530	0	1019	3562	3429	-133	4581	45	4626
Jun 10	24	15:29:24	0	62	199	282	590	0	1133	3511	3648	137	4644	165	4809
July 10	1	16:10:13	0	61	209	278	507	0	1055	3665	4081	416	4720	13	4733
Aug. 10	11	15:27:02	0	123	181	287	427	0	1018	3406	3345	-61	4424	102	4526
Sept 10	1	15:06:40	0	119	144	274	485	0	1022	3035	3377	342	4057	28	4085
Oct. 10	7	18:34:17	0	0	234	299	539	0	1072	2611	3254	643	3683	0	3683
Nov. 10	2	18:45:05	20	121	82	145	391	0	759	2472	2286	-186	3231	3	3234
Dec. 10	27	09:35:25	10	117	155	139	602	0	1023	2448	2108	-340	3471	0	3471
Jan. 11	10	10:31:41	28	112	187	314	627	0	1268	2843	2668	-175	4111	3	4114
Feb. 11	4	10:01:26	17	113	160	314	620	0	1224	2082	2157	75	3306	0	3306
Mar. 11	29	19:25:18	27	111	154	102	595	0	989	2423	2297	-126	3412	6	3418
Max	**1**	**16:10:13**	**0**	**61**	**209**	**278**	**507**	**0**	**1055**	**3665**	**4081**	**416**	**4720**	**13**	**4733**

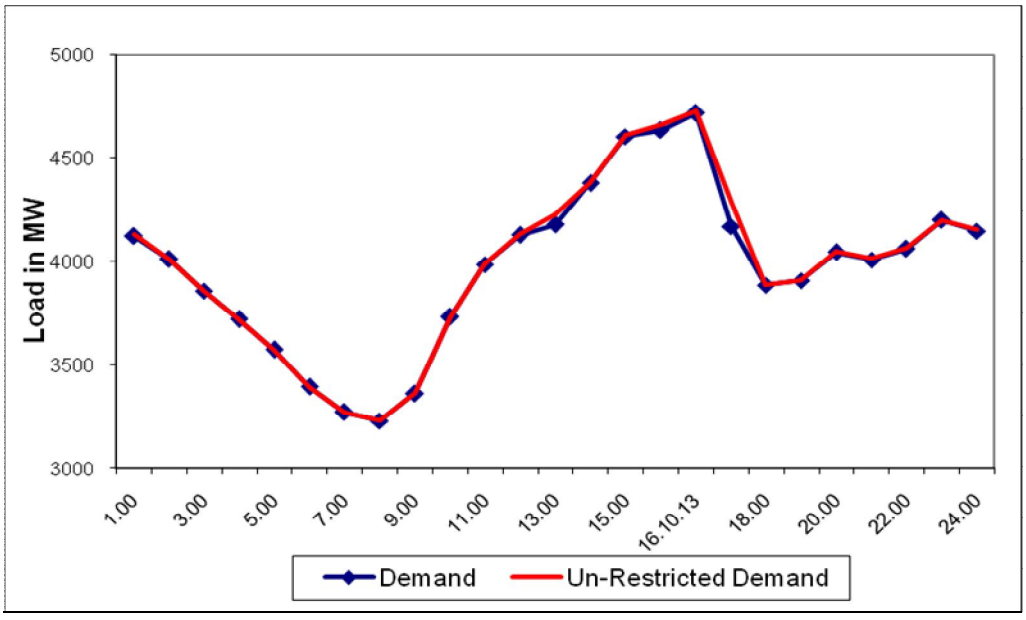
9.17 LOAD PATTERN

9.17.1 SUMMER SEASON

9.17.1.1 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM PEAK DEMAND MET DURING SUMMER 2010-11 – 01.07.2010 – 4720MW at 16:10:13Hrs.

All figures in MW

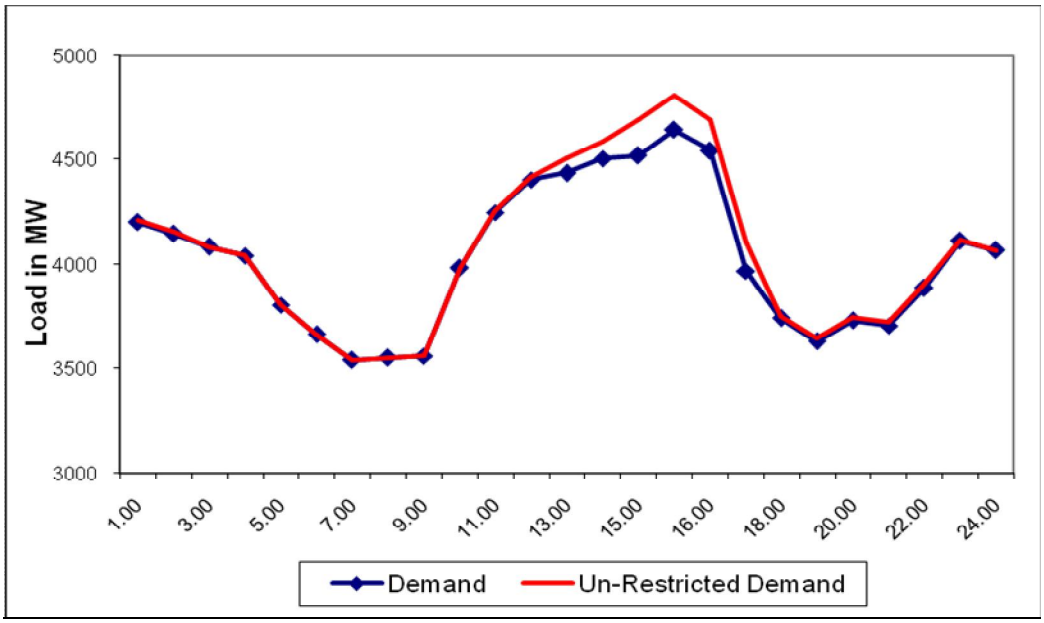
Hrs.	Demand	Load Shedding	Un-Restricted Demand
1.00	4123	11	4134
2.00	4011	2	4013
3.00	3858	0	3858
4.00	3720	0	3720
5.00	3575	0	3575
6.00	3396	0	3396
7.00	3273	0	3273
8.00	3233	0	3233
9.00	3365	0	3365
10.00	3733	0	3733
11.00	3987	1	3988
12.00	4128	5	4133
13.00	4180	48	4228
14.00	4382	0	4382
15.00	4608	8	4616
16.00	4637	25	4662
16.10.13	**4720**	13	4733
17.00	4170	118	4288
18.00	3885	0	3885
19.00	3908	1	3909
20.00	4044	3	4047
21.00	4009	6	4015
22.00	4062	4	4066
23.00	4201	2	4203
24.00	4149	8	4157
ENERGY IN Mus	88.904	0.316	89.220



9.17.1.2 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM UNRESTRICTED DEMAND DURING SUMMER 2010-11 – 24.06.2010 – 4809MW at 15:29:24Hrs.

All figures in MW

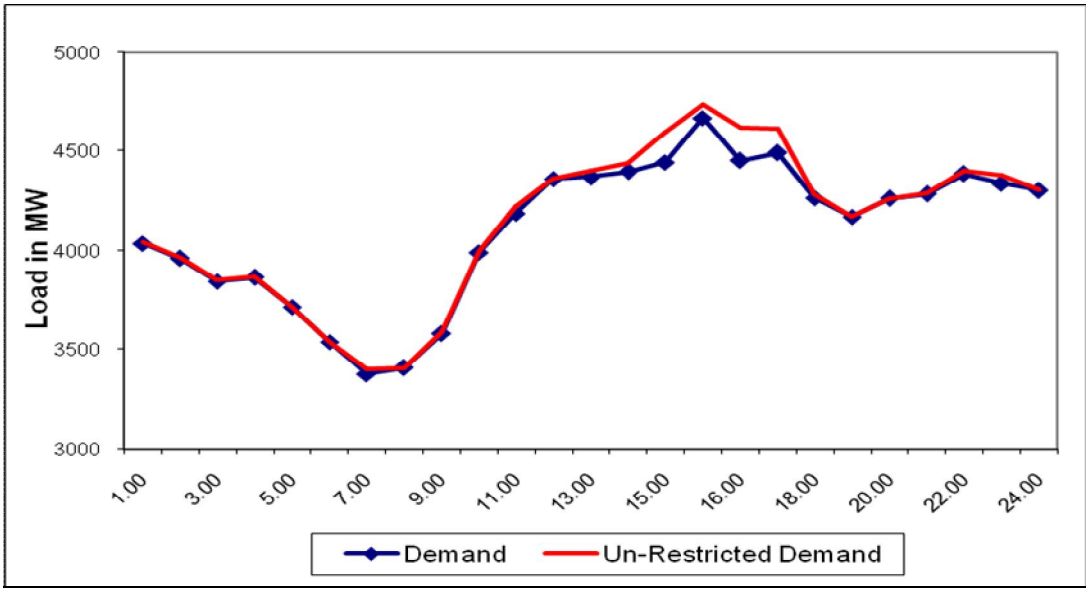
Hrs.	Demand	Load Shedding	Un-Restricted Demand
1.00	4203	9	4212
2.00	4147	7	4154
3.00	4083	0	4083
4.00	4042	0	4042
5.00	3807	0	3807
6.00	3666	0	3666
7.00	3543	0	3543
8.00	3554	0	3554
9.00	3562	0	3562
10.00	3984	0	3984
11.00	4249	7	4256
12.00	4407	13	4420
13.00	4438	68	4506
14.00	4507	77	4584
15.00	4521	169	4690
15.29.24	4644	165	**4809**
16.00	4544	147	4691
17.00	3970	138	4108
18.00	3743	11	3754
19.00	3631	15	3646
20.00	3732	17	3749
21.00	3707	17	3724
22.00	3888	21	3909
23.00	4112	3	4115
24.00	4068	0	4068
ENERGY IN Mus	86.274	1.572	87.846



9.17.1.3 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM ENERGY CONSUMED DURING SUMMER 2010-11 – 92.955 ON 21.06.2010

All figures in MW

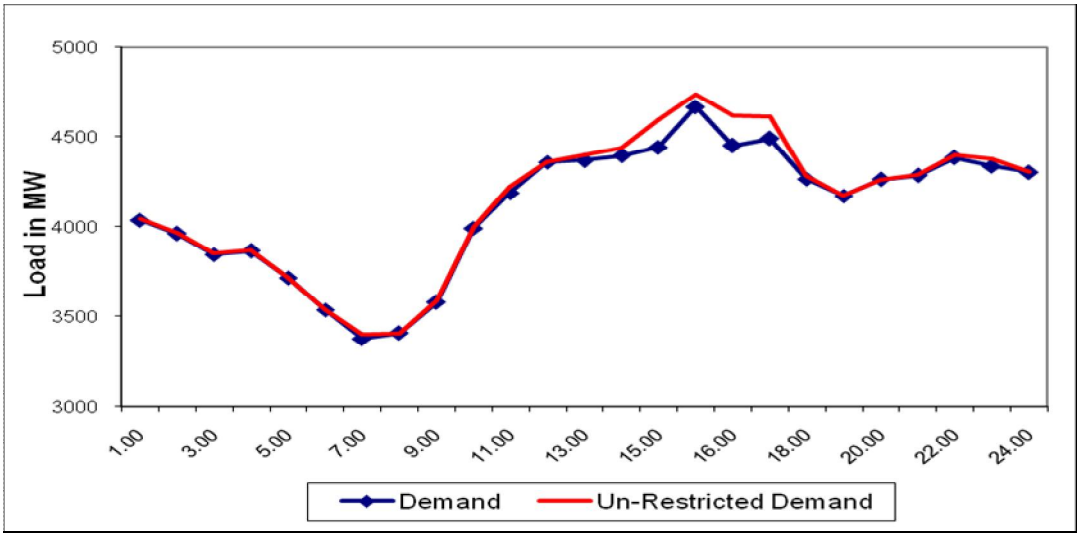
Hrs.	Demand	Load Shedding	Un-Restricted Demand
1.00	4037	5	4042
2.00	3962	3	3965
3.00	3847	4	3851
4.00	3866	4	3870
5.00	3718	3	3721
6.00	3540	0	3540
7.00	3377	26	3403
8.00	3409	0	3409
9.00	3580	13	3593
10.00	3993	5	3998
11.00	4189	33	4222
12.00	4361	0	4361
13.00	4371	28	4399
14.00	4396	44	4440
15.00	4444	151	4595
15.34.02	4668	71	4739
16.00	4452	167	4619
17.00	4493	123	4616
18.00	4267	16	4283
19.00	4172	2	4174
20.00	4264	0	4264
21.00	4286	2	4288
22.00	4385	19	4404
23.00	4339	42	4381
24.00	4304	0	4304
ENERGY IN Mus	**92.955**	0.665	93.620



9.17.1.4 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM UNRESTRICTED ENERGY DEMAND DURING SUMMER 2010-11 – 93.620 MUs ON 21.06.2010

All figures in MW

Hrs.	Demand	Load Shedding	Un-Restricted Demand
Hrs.	Demand	Load Shedding	Un-Restricted Demand
1.00	4037	5	4042
2.00	3962	3	3965
3.00	3847	4	3851
4.00	3866	4	3870
5.00	3718	3	3721
6.00	3540	0	3540
7.00	3377	26	3403
8.00	3409	0	3409
9.00	3580	13	3593
10.00	3993	5	3998
11.00	4189	33	4222
12.00	4361	0	4361
13.00	4371	28	4399
14.00	4396	44	4440
15.00	4444	151	4595
15.34.02	4668	71	4739
16.00	4452	167	4619
17.00	4493	123	4616
18.00	4267	16	4283
19.00	4172	2	4174
20.00	4264	0	4264
21.00	4286	2	4288
22.00	4385	19	4404
23.00	4339	42	4381
24.00	4304	0	4304
ENERGY IN Mus	92.955	0.665	**93.620**

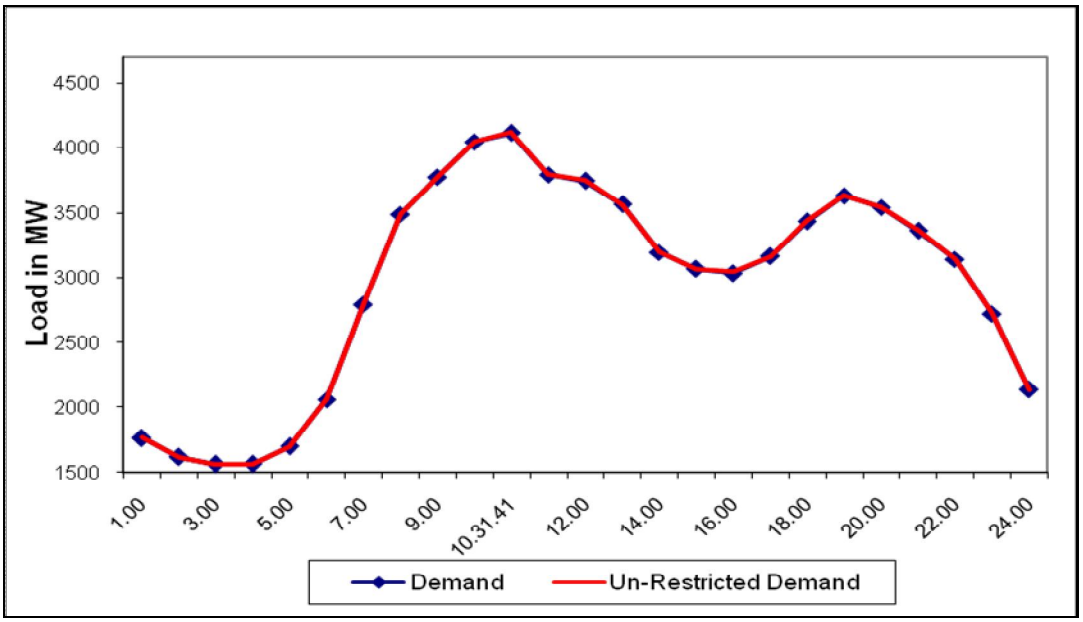


9.17.2 WINTER LOAD PATTERN

9.17.2.1 LOAD PATTERN OF DELHI ON THE DAY OF PEAK DEMAND MET DURING WINTER 2010-11 – 4111MW ON 10.01.2011 at 10:31:41Hrs.

All figures in MW

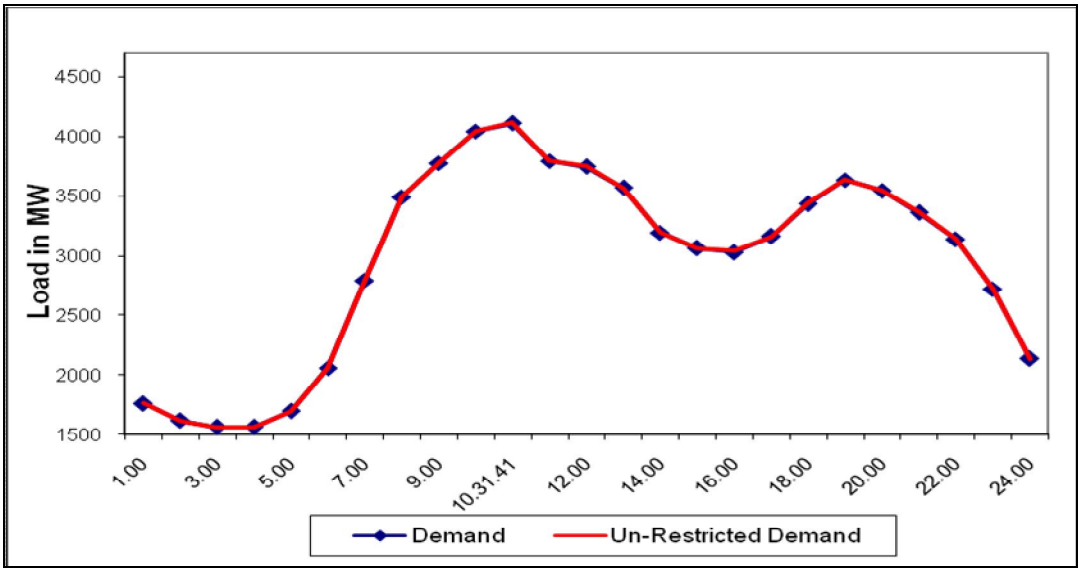
Hrs.	Demand	Load Shedding	Un-Restricted Demand
1.00	1762	0	1762
2.00	1617	0	1617
3.00	1565	0	1565
4.00	1565	0	1565
5.00	1697	0	1697
6.00	2060	0	2060
7.00	2793	0	2793
8.00	3491	2	3493
9.00	3777	4	3781
10.00	4043	2	4045
10.31.41	**4111**	3	4114
11.00	3793	3	3796
12.00	3745	2	3747
13.00	3564	2	3566
14.00	3196	0	3196
15.00	3064	0	3064
16.00	3032	12	3044
17.00	3163	0	3163
18.00	3431	3	3434
19.00	3634	1	3635
20.00	3542	1	3543
21.00	3362	2	3364
22.00	3143	0	3143
23.00	2721	0	2721
24.00	2134	0	2134
ENERGY IN Mus	67.059	0.031	67.090



9.17.2.2 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM UN-RESTRICTED DEMAND WINTER 2010-11 – 4111MW ON 10.01.2011 at 10:31:41Hrs.

All figures in MW

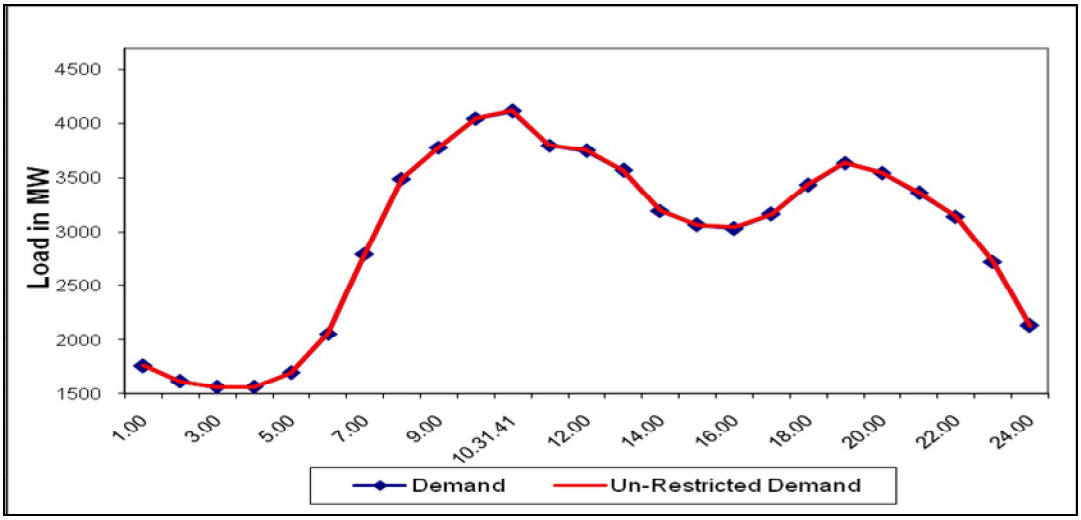
Hrs.	Demand	Load Shedding	Un-Restricted Demand
1.00	1762	0	1762
2.00	1617	0	1617
3.00	1565	0	1565
4.00	1565	0	1565
5.00	1697	0	1697
6.00	2060	0	2060
7.00	2793	0	2793
8.00	3491	2	3493
9.00	3777	4	3781
10.00	4043	2	4045
10.31.41	4111	3	**4114**
11.00	3793	3	3796
12.00	3745	2	3747
13.00	3564	2	3566
14.00	3196	0	3196
15.00	3064	0	3064
16.00	3032	12	3044
17.00	3163	0	3163
18.00	3431	3	3434
19.00	3634	1	3635
20.00	3542	1	3543
21.00	3362	2	3364
22.00	3143	0	3143
23.00	2721	0	2721
24.00	2134	0	2134
ENERGY IN Mus	67.059	0.031	67.090



9.17.2.3 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM ENERGY CONSUMED DURING WINTER 2010-11 – 67.059MUs ON 10.01.2011

All figures in MW

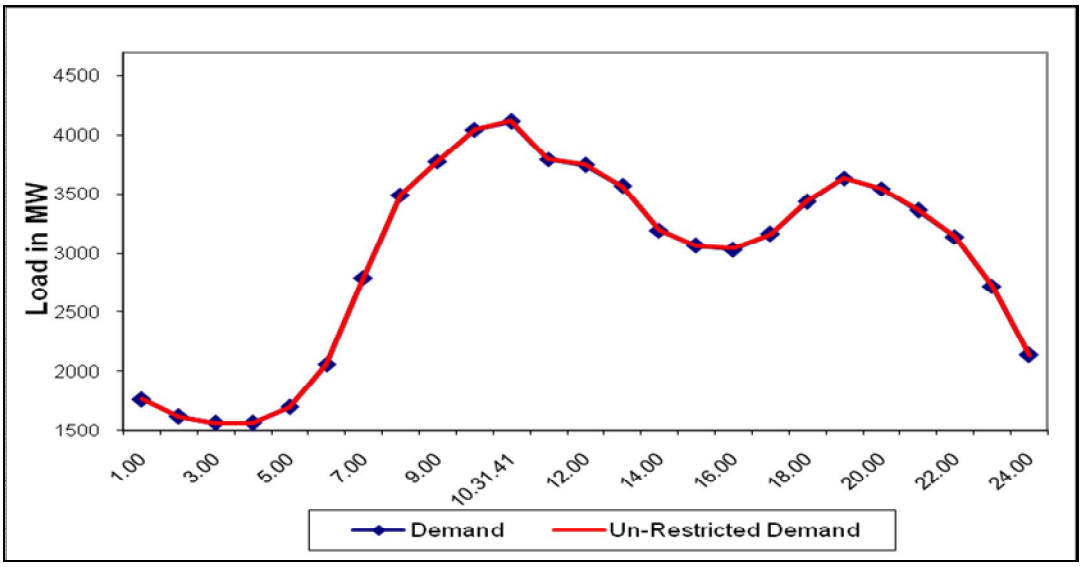
Hrs.	Demand	Load Shedding	Un-Restricted Demand
Hrs.	Demand	Load Shedding	Un-Restricted Demand
1.00	1762	0	1762
2.00	1617	0	1617
3.00	1565	0	1565
4.00	1565	0	1565
5.00	1697	0	1697
6.00	2060	0	2060
7.00	2793	0	2793
8.00	3491	2	3493
9.00	3777	4	3781
10.00	4043	2	4045
10.31.41	4111	3	4114
11.00	3793	3	3796
12.00	3745	2	3747
13.00	3564	2	3566
14.00	3196	0	3196
15.00	3064	0	3064
16.00	3032	12	3044
17.00	3163	0	3163
18.00	3431	3	3434
19.00	3634	1	3635
20.00	3542	1	3543
21.00	3362	2	3364
22.00	3143	0	3143
23.00	2721	0	2721
24.00	2134	0	2134
ENERGY IN Mus	**67.059**	0.031	67.090



9.17.2.4 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM UNRESTRICTED ENERGY DEMAND DURING WINTER 2010-11 – 67.090MUs ON 10.01.2011

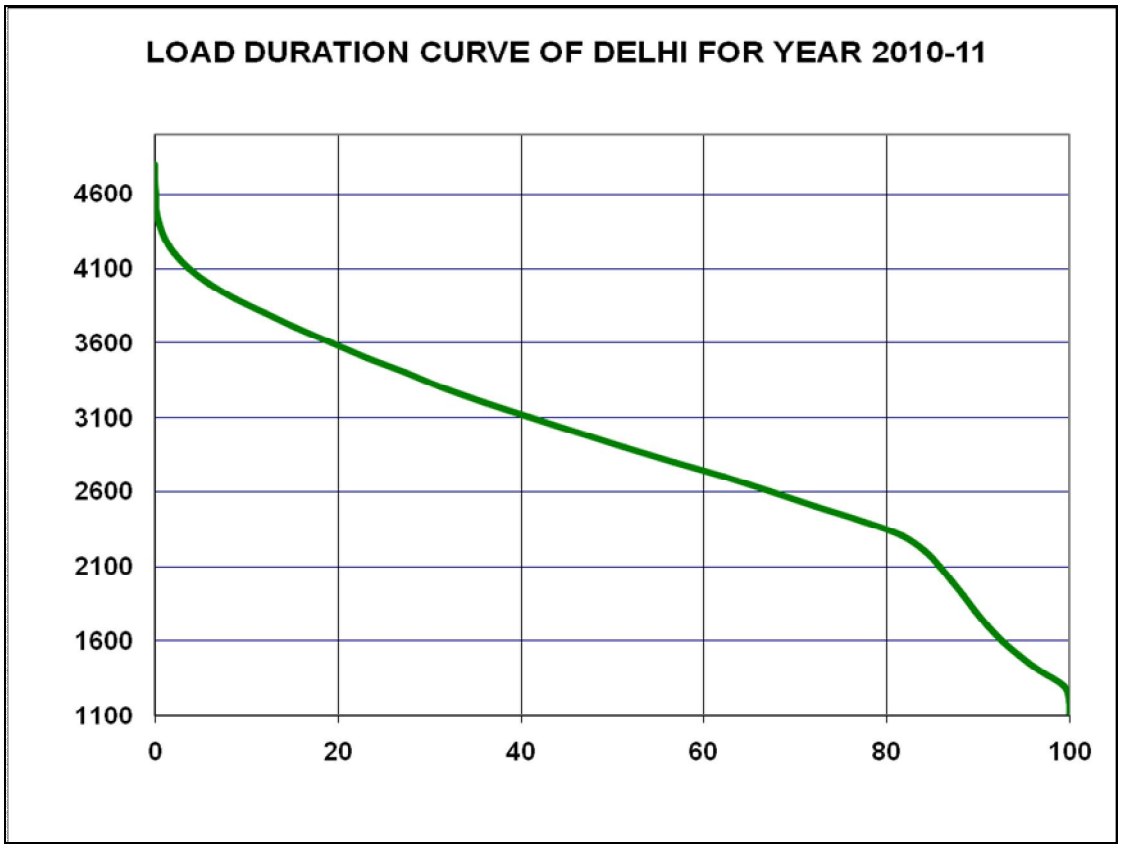
All figures in MW

Hrs.	Demand met	Load Shedding	Un-Restricted Demand
1.00	1762	0	1762
2.00	1617	0	1617
3.00	1565	0	1565
4.00	1565	0	1565
5.00	1697	0	1697
6.00	2060	0	2060
7.00	2793	0	2793
8.00	3491	2	3493
9.00	3777	4	3781
10.00	4043	2	4045
10.31.41	4111	3	4114
11.00	3793	3	3796
12.00	3745	2	3747
13.00	3564	2	3566
14.00	3196	0	3196
15.00	3064	0	3064
16.00	3032	12	3044
17.00	3163	0	3163
18.00	3431	3	3434
19.00	3634	1	3635
20.00	3542	1	3543
21.00	3362	2	3364
22.00	3143	0	3143
23.00	2721	0	2721
24.00	2134	0	2134
ENERGY IN Mus	67.059	0.031	**67.090**



9.18 LOAD DURATION CURVE FOR 2010-11 (Based on SCADA)

LOAD (MW)	% TIME	LOAD (MW)	% TIME
Above 4800	0.00	Above 2900	51.29
Above 4700	0.00	Above 2800	56.79
Above 4600	0.02	Above 2700	62.15
Above 4500	0.09	Above 2600	67.19
Above 4400	0.45	Above 2500	72.22
Above 4300	1.08	Above 2400	77.49
Above 4200	2.08	Above 2300	81.61
Above 4100	3.69	Above 2200	84.18
Above 4000	5.92	Above 2100	85.74
Above 3900	8.75	Above 2000	87.10
Above 3800	12.06	Above 1900	88.32
Above 3700	15.56	Above 1800	89.61
Above 3600	19.37	Above 1700	91.03
Above 3500	23.20	Above 1600	92.60
Above 3400	27.29	Above 1500	94.47
Above 3300	31.24	Above 1400	96.73
Above 3200	35.97	Above 1300	99.38
Above 3100	40.90	Above 1200	99.97
Above 3000	46.15	Above 1100	100.00



10 FREQUENCY SPECTRUM OF NORTHERN REGION [(NORTH-EAST-WEST)(NEW)] FOR 2010-11

Month	Below 48.0Hz (% Time)	48.0 – 48.5Hz (% Time)	48.58-48.8Hz (% Time)	48.8-49.0 Hz (% Time)	49.0-49.2Hz (% Time)	49.2-49.5Hz (% Time)	49.5-50.0Hz (% Time)	50.0-50.2Hz (% Time)	50.2-51.0Hz (% Time)	Above 51.0Hz	Ave. freq. during the month	Max. freq. during the month	Min. freq. during the month
APR'10	0.00	0.03	3.65	14.95	21.00	40.48	19.05	0.72	0.13	0.00	49.27	50.50	48.56
MAY'10	0.00	0.00	0.00	0.48	1.97	15.64	68.70	10.47	2.73	0.00	49.73	50.80	48.76
JUN'10	0.00	0.00	0.00	0.10	0.48	5.27	69.87	19.90	4.39	0.00	49.84	50.72	48.78
JUL'10	0.00	0.00	0.07	0.75	1.49	7.78	64.60	20.16	5.15	0.00	49.82	50.72	48.72
AUG.'10	0.00	0.00	0.02	0.22	1.54	6.41	64.64	22.97	4.20	0.00	49.85	50.65	48.73
SEP.'10	0.00	0.00	0.00	0.10	0.48	5.27	69.87	19.90	4.38	0.00	49.98	50.75	48.76
OCT.'10	0.00	0.00	0.00	0.10	0.48	5.27	69.87	19.90	4.38	0.00	49.94	50.60	49.09
NOV.'10	0.00	0.00	0.00	0.00	0.01	0.48	49.01	37.76	12.74	0.00	50.00	50.73	49.12
DEC.'10	0.00	0.00	0.00	0.00	0.08	1.94	62.85	26.09	9.04	0.00	49.92	50.68	48.94
JAN.'11	0.00	0.00	0.00	0.01	0.34	5.07	18.77	51.03	19.95	4.83	49.86	50.44	49.23
FEB.'11	0.00	0.00	0.00	0.01	0.36	5.25	18.75	50.61	19.97	5.03	49.88	50.67	49.01
MAR'11	0.00	0.00	0.00	0.00	0.12	3.40	73.54	20.60	2.33	0.00	49.86	50.64	49.00
TOTAL 2010-11	0.00	0.00	**0.31**	**1.39**	**2.36**	**8.52**	**54.13**	**25.01**	**7.45**	**0.82**	**49.83 Avg**	**50.80 Max**	**48.56 Min**

11 DETAILS OF UNDER FREQUECY RELAY TRIPPINGS OCCURRED IN 2010-11

MONTH	STAGE-1	STAGE-2	df/dt (49.9Hz with slop 0.1, 0.2, 0.3Hz/Sec)	TOTAL
APRIL 2010	571	--	--	571
MAY 2010	15	--	--	15
JUNE 2010	02	--	4	6
JULY 2010	20	--	2	22
AUGUST 2010	16	--	--	16
SEPTEMBER 2010	14	--	--	14
OCTOBER 2010	0	--	--	--
NOVEMBER 2010	0	--	--	--
DECEMBER 2010	0	--	--	--
JANUARY 2011	0	--	--	--
FEBRUARY 2011	2	--	--	2
MARCH 2011	0	--	--	--
TOTAL 2010-11	**640**	--	**6**	**646**

12 INTRASTATE TRANSMISSION LOSSES

12.1 WEEK WISE INTRASTATE TRANSMISSION LOSSES FOR 2010-11 (Based on SEM data)

Week No.	Avg Trans. Loss in %age	Actual drawal from the grid in Mus	Actual Ex-bus generation with in Delhi in Mus						
			IP	RPH	GT	PRAGATI	Bawana	BTPS	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)=sum(3 to 9)
1	1.47	165.5792	-0.0377	9.3539	15.7082	27.8085	0.0000	51.3734	104.2064
2	1.44	308.5241	-0.3535	17.0104	27.7107	48.4012	0.0000	100.5807	193.3495
3	1.53	361.5986	-0.1620	15.0680	27.6595	47.1585	0.0000	99.6157	189.3398
4	1.34	402.8954	-0.4051	8.0159	28.7513	47.5432	0.0000	93.3385	177.2437
5	1.19	384.7296	-0.4484	9.6385	28.7237	47.1860	0.0000	95.6628	180.7626
6	1.32	407.2015	-0.4929	9.5278	26.4819	48.4662	0.0000	79.6161	163.5991
7	1.28	432.5253	-0.5027	9.8612	27.6084	46.5337	0.0000	82.5336	166.0342
8	1.31	478.5062	-0.5239	9.8293	27.8744	46.3988	0.0000	74.6811	158.2597
9	1.35	480.6388	-0.5014	9.4177	28.4513	47.5185	0.0000	68.8630	153.7490
10	1.20	445.9151	-0.5626	9.6294	29.2143	47.4343	0.0000	79.9250	165.6405
11	1.06	398.2189	-0.4974	9.4959	27.8799	45.8348	0.0000	61.1728	143.8860
12	1.27	429.3904	-0.5401	9.6964	31.5576	48.0819	0.0000	93.5129	182.3088
13	1.17	469.8878	-0.3291	10.1473	29.5932	47.8538	0.0000	99.9180	187.1832
14	1.10	206.6967	-0.2967	4.1194	12.9294	20.6924	0.0000	41.5268	78.9712
15	1.30	450.1339	-0.0979	18.0943	18.0659	47.2409	0.0000	67.5590	150.8623
16	1.22	481.1538	-0.0977	10.5734	25.0284	47.6881	0.0000	70.1118	153.3041
17	1.25	449.6018	-0.0979	17.4077	18.6466	46.4999	0.0000	70.3626	152.8189
18	1.12	433.7801	-0.0980	17.9668	20.5237	44.7498	0.0000	66.1911	149.3333
19	1.07	436.9527	-0.0990	17.5223	11.7315	47.0117	0.0000	68.9638	145.1302
20	1.27	432.7716	-0.0987	19.6657	23.2679	45.5433	0.0000	72.3467	160.7249
21	1.19	419.9308	-0.0982	16.4605	17.9985	46.3581	0.0000	64.4465	145.1654
22	1.09	409.8679	-0.0982	10.9886	18.3640	47.6318	0.0000	60.3169	137.2031
23	1.05	419.2549	-0.0981	15.7252	22.2543	44.2828	0.0000	75.2096	157.3737
24	1.08	411.2571	-0.0983	5.9626	19.6610	45.8315	0.0000	60.0179	131.3748
25	1.18	380.5802	-0.0992	3.9020	18.8418	43.4429	0.0000	61.7331	127.8206
26	1.14	341.0294	-0.0986	-0.1448	15.2049	43.8260	0.0000	61.8092	120.5966
27	1.46	331.9983	-0.0986	-0.1339	23.0725	47.0679	0.0000	78.9755	148.8833

Week No.	Avg Trans. Loss in %age	Actual drawal from the grid in Mus	Actual Ex-bus generation with in Delhi in Mus						
			IP	RPH	GT	PRAGATI	Bawana	BTPS	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)=sum(3 to 9)
28	1.40	333.8477	-0.0686	-0.1256	35.9861	48.9774	-0.1093	80.6116	165.2716
29	1.17	306.1544	-0.0652	-0.1522	35.2299	47.5787	-0.0863	82.9059	165.4107
30	1.22	293.9901	-0.0658	13.9471	29.9998	30.4617	5.6437	92.7563	172.7428
31	1.20	259.2218	-0.0639	12.4366	17.7544	24.1118	1.3076	73.0489	128.5953
32	1.29	263.6629	-0.0640	15.9412	13.3238	23.7096	-0.0370	59.3789	112.2525
33	1.29	235.5256	-0.0645	19.5287	13.2423	46.6796	-0.0143	60.6189	139.9906
34	1.56	224.6407	-0.0640	14.9149	13.2261	46.8764	1.5128	63.6485	140.1147
35	1.42	216.7530	-0.0651	18.9930	13.4252	49.4405	0.8293	66.4110	149.0339
36	1.46	200.6950	-0.0651	15.7510	35.1946	50.8290	-0.0011	65.0548	166.7632
37	1.53	199.3919	-0.0654	9.3601	38.4973	50.3070	-0.0032	84.0099	182.1058
38	1.52	197.4450	-0.0698	18.2078	37.0359	50.6882	-0.0029	84.1957	190.0549
39	1.55	207.5843	-0.0703	18.3768	33.7702	46.9052	0.0025	93.4367	192.4211
40	1.37	244.0014	-0.0703	16.5637	33.6900	47.2108	0.0021	75.3532	172.7494
41	1.42	274.2264	-0.0733	18.3176	27.6256	50.6204	0.0053	93.4570	189.9527
42	1.37	265.7098	-0.0726	18.4424	30.9788	50.2170	0.0128	80.9434	180.5218
43	1.39	230.2002	-0.0720	18.4047	29.0421	47.0224	-0.0002	95.4306	189.8276
44	1.29	217.3418	-0.0420	18.4536	26.5628	49.9693	-0.0005	85.0971	180.0404
45	1.41	220.9122	-0.1039	15.5549	24.3783	51.1428	-0.0288	84.1161	175.0595
46	1.31	187.2324	-0.0729	17.7984	26.1118	49.6656	-0.0807	99.9442	193.3664
47	1.32	196.1681	-0.0729	17.3350	25.4882	49.2536	0.9171	92.9658	185.8868
48	1.25	200.1628	-0.0730	9.1643	25.4614	49.6150	3.6547	92.8492	180.6715
49	1.16	223.8745	-0.0891	11.8860	26.2747	20.3502	-0.0180	93.8325	152.2362
50	1.23	230.6313	-0.0829	18.4812	25.1339	10.6296	-0.0080	85.3819	139.5357
51	1.33	231.1946	-0.0730	18.0463	24.4900	11.9981	-0.0080	98.5210	152.9743
52	1.20	255.3196	-0.0729	18.9883	24.6401	14.0723	2.3708	86.3774	146.3760
Total 2010-11	1.28	16686.5073	-8.6944	669.4173	1289.3681	2232.4187	15.8603	4070.7104	8269.0804

Week	Total Consumption of Delhi at DTL periphery in Mus	Actual drawal of distribution licensees and deemed licensees in MUs							Trans. Loss in %
		NDPL	BRPL	BYPL	NDMC	MES	Total	Avg. Trans Loss in Mus	
(1)	(10)=(3)+(9)	(11)	(12)	(13)	(14)	(15)	(16)=(11)+(12)+(13)+(14)+(15)	(17)=(10)-(16)	(18)=(17)*100/10
1	269.7856	77.3788	109.4376	64.4304	12.5133	2.0655	265.8255	3.9601	1.47
2	501.8736	142.3464	203.2611	118.5610	26.4658	4.0278	494.6620	7.2116	1.44
3	550.9384	154.0952	224.5956	130.8319	28.7119	4.2481	542.4827	8.4557	1.53
4	580.1391	161.2871	239.8592	136.0440	30.5793	4.5776	572.3472	7.7919	1.34
5	565.4922	157.2454	232.4636	134.6779	29.9239	4.4319	558.7427	6.7495	1.19
6	570.8006	160.6672	234.1519	134.2995	29.6624	4.4668	563.2478	7.5528	1.32
7	598.5595	166.7829	247.8063	141.3989	30.3912	4.5284	590.9077	7.6518	1.28
8	636.7659	176.6095	264.3674	150.1540	32.7216	4.5657	628.4182	8.3477	1.31
9	634.3878	174.9633	264.7959	149.4899	31.8594	4.7141	625.8227	8.5652	1.35
10	611.5556	168.9451	254.2338	145.1371	31.4326	4.4611	604.2097	7.3459	1.20
11	542.1049	152.9104	221.6067	129.4401	28.4178	3.9950	536.3700	5.7349	1.06
12	611.6992	170.8353	253.3842	143.8906	31.2548	4.5583	603.9232	7.7760	1.27
13	657.0710	180.5683	277.4158	153.3819	32.9928	5.0004	649.3592	7.7118	1.17
14	285.6679	78.6394	121.1740	65.3155	15.0794	2.3056	282.5140	3.1539	1.10
15	600.9962	167.1465	249.3319	142.9438	29.2318	4.5017	593.1558	7.8404	1.30
16	634.4579	176.2823	265.6541	148.3003	31.6150	4.8824	626.7342	7.7236	1.22
17	602.4207	168.9242	249.8433	141.6553	29.8006	4.6902	594.9135	7.5072	1.25
18	583.1134	164.5462	240.0903	137.4778	29.8548	4.6201	576.5890	6.5244	1.12
19	582.0830	165.4309	238.7912	138.0734	29.0935	4.4454	575.8343	6.2486	1.07
20	593.4966	163.9638	247.2861	140.4147	29.6706	4.5960	585.9312	7.5654	1.27
21	565.0962	160.4620	229.0671	135.6692	28.7650	4.4074	558.3708	6.7254	1.19
22	547.0710	154.8175	223.4057	131.4476	27.2237	4.1981	541.0926	5.9784	1.09
23	576.6286	164.3645	235.9527	137.5788	28.2907	4.3584	570.5451	6.0835	1.05
24	542.6319	154.4502	221.9379	129.1667	26.9849	4.2422	536.7819	5.8500	1.08
25	508.4008	145.2399	207.8006	119.1438	26.2010	3.9927	502.3781	6.0227	1.18
26	461.6260	133.2480	186.3342	108.9872	24.1150	3.6957	456.3801	5.2459	1.14
27	480.8816	136.3206	194.6248	114.3364	24.8203	3.7511	473.8532	7.0284	1.46

Week	Total Consumption of Delhi at DTL periphery in Mus	Actual drawal of distribution licensees and deemed licensees in MUs							Trans. Loss in %
		NDPL	BRPL	BYPL	NDMC	MES	Total	Avg. Trans Loss in Mus	
(1)	(10)=(3)+(9)	(11)	(12)	(13)	(14)	(15)	(16)=(11)+(12)+(13)+(14)+(15)	(17)=(10)-(16)	(18)=(17)*100/10
28	499.1193	138.9554	203.6530	120.1436	25.6854	3.7078	492.1451	6.9742	1.40
29	471.5651	132.8870	192.6585	113.5621	23.4685	3.4545	466.0304	5.5347	1.17
30	466.7328	131.6213	190.4936	111.0614	24.3299	3.5482	461.0544	5.6785	1.22
31	387.8170	112.2360	156.4579	91.4956	19.8604	3.1123	383.1622	4.6549	1.20
32	375.9154	103.6767	156.3135	89.7921	18.1999	3.0677	371.0501	4.8654	1.29
33	375.5162	106.6318	153.7915	88.1317	19.0035	3.1152	370.6738	4.8424	1.29
34	364.7554	105.0624	148.8975	84.2825	17.7536	3.0575	359.0535	5.7019	1.56
35	365.7868	106.9594	148.2329	84.5948	17.6195	3.1927	360.5993	5.1875	1.42
36	367.4582	106.1081	149.6090	84.8326	17.8783	3.6778	362.1058	5.3523	1.46
37	381.4977	109.3829	155.7029	87.4818	18.8801	4.2150	375.6627	5.8349	1.53
38	387.4998	111.2591	158.0877	88.7253	19.2588	4.2850	381.6158	5.8841	1.52
39	400.0055	114.7391	162.8575	91.2966	20.2586	4.6355	393.7873	6.2181	1.55
40	416.7508	117.6884	170.6089	96.1451	21.5600	5.0246	411.0269	5.7239	1.37
41	464.1790	127.9576	193.0648	106.6197	24.0594	5.8643	457.5659	6.6132	1.42
42	446.2316	122.9588	180.9486	102.7686	27.6658	5.7531	440.0949	6.1366	1.37
43	420.0278	117.7831	167.8282	96.6751	26.8351	5.0737	414.1952	5.8326	1.39
44	397.3822	112.6713	159.6226	90.8949	24.5577	4.5109	392.2574	5.1248	1.29
45	395.9716	114.6639	155.8955	91.1267	24.2897	4.4289	390.4047	5.5670	1.41
46	380.5988	111.4055	151.1998	88.5243	20.8577	3.6347	375.6221	4.9767	1.31
47	382.0550	113.4728	152.3412	86.7305	20.6578	3.8152	377.0175	5.0375	1.32
48	380.8343	111.5692	149.5184	88.3734	22.8570	3.7482	376.0662	4.7681	1.25
49	376.1107	110.1334	147.9665	87.6202	22.4366	3.5968	371.7536	4.3571	1.16
50	370.1670	110.8222	143.2900	86.0411	22.1907	3.2512	365.5953	4.5718	1.23
51	384.1689	111.3719	149.9187	90.7231	23.8437	3.1820	379.0394	5.1295	1.33
52	401.6955	105.2864	166.5626	96.7097	25.0975	3.2145	396.8706	4.8249	1.20
Total 2010-11	24955.5877	7045.7744	10204.1944	5866.6003	1306.7783	212.4952	24635.8426	319.7451	1.28

12.2 MONTH WISE TRANSMISSION LOSSES FOR 2010-11

Month	NDPL	BRPL	BYPL	NDMC	MES	IP	Total supply to disoms
1	2	3	4	5	6	7	8=sum(2 to 7)
Apr-10	650.839	949.074	548.496	121.587	18.243	1.308	2289.548
May-10	743.854	1107.306	631.362	135.959	20.027	1.839	2640.347
Jun-10	728.581	1092.173	617.195	134.460	19.676	2.011	2594.096
Jul-10	758.121	1129.616	639.722	135.044	20.986	0.512	2684.001
Aug-10	715.047	1039.109	603.475	127.006	19.541	0.410	2504.588
Sep-10	627.485	892.626	519.887	111.508	17.149	0.471	2169.125
Oct-10	571.484	824.723	484.424	102.791	15.342	0.278	1999.042
Nov-10	452.678	649.547	370.326	77.831	13.452	0.276	1564.109
Dec-10	496.459	706.847	397.279	87.155	19.404	0.303	1707.446
Jan-11	530.480	772.218	437.667	112.290	23.318	0.296	1876.269
Feb-11	450.074	607.041	353.993	88.254	14.764	0.319	1514.446
Mar-11	493.340	690.720	408.396	104.269	14.231	0.348	1711.305
Total	7218.443	10461.000	6012.220	1338.155	216.131	8.372	25254.322

Month	GT	RPH	PPCL	BTPS	Drawal from the Grid	Bawana
1	8	9	10	11	12	13
Apr-10	120.418	55.388	204.868	416.986	1523.733	--
May-10	122.364	42.684	208.976	339.520	1961.594	--
Jun-10	127.144	41.713	203.068	365.815	1886.980	--
Jul-10	99.154	67.776	208.204	316.593	2025.546	--
Aug-10	80.090	71.157	205.010	294.239	1883.259	--
Sep-10	76.946	20.640	190.031	279.573	1626.548	--
Oct-10	134.021	26.050	171.527	368.145	1319.101	6.756
Nov-10	61.393	74.701	180.975	270.400	996.324	2.291
Dec-10	160.682	67.757	217.135	360.267	927.719	-0.003
Jan-11	127.204	81.467	219.661	386.020	1087.835	0.016
Feb-11	101.441	58.562	199.605	373.486	798.344	4.457
Mar-11	111.293	76.467	58.771	404.016	1077.758	3.428
Total	1322.150	684.362	2267.833	4175.060	17114.741	16.945

Month	Total Injection For supply to Discoms	Losses in MUs	Losses in %	Losses in % during previous year
1	14=Sum(8to13)	15=14-7	16=15*100/14	17
Apr-10	2321.394	31.846	1.37	1.35
May-10	2675.138	34.791	1.30	1.44
Jun-10	2624.720	30.624	1.17	1.58
Jul-10	2717.274	33.273	1.22	1.50
Aug-10	2533.756	29.167	1.15	1.46
Sep-10	2193.738	24.613	1.12	1.58
Oct-10	2025.599	26.557	1.31	1.25
Nov-10	1586.085	21.976	1.39	1.34
Dec-10	1733.557	26.111	1.51	1.32
Jan-11	1902.203	25.934	1.36	1.17
Feb-11	1535.895	21.450	1.40	1.00
Mar-11	1731.733	20.427	1.18	1.26
Total	25581.092	326.769	1.28	1.38

13 ALLOCATION OF POWER TO DISCOMS FOR 2010-11

13.1 ALLOCATION FROM CENTRAL SECTOR

A) Allocation from Central Sector Generating Stations to Delhi w.e.f. 01.04.2010

i) TIME BLOCK - 00.00hrs & 18.00hrs. and 23.00-24.00hrs @ 0% from unallocated quota of Central Sector Generating Stations

All figures in MW

Name of the Stn	Installed capacity	Total Un-allocated	Basic Allocation	Basic Allocation at periphery	Allocation out of Unallocated Quota	Allocation out of Un-allocation Quota at Delhi periphery	Total allocation at Delhi periphery
1	2	3	4	5	6	7	(8)=(5)+(7)
NTPC STATIONS							
Singrauli STPS	2000	300	150	130	0	0	130
Rihand	1000	150	100	87	0	0	87
Rihand Stage -II	1000	150	126	109	0	0	109
ANTA GPS	419	63	44	41	0	0	41
Auriya GPS	663.36	99	72	67	0	0	67
Dadri GPS	829.78	129	91	85	0	0	85
Dadri NCTPS (Th)	840	0	756	657	0	0	657
Dadri NCTPS (Th) Stage-II	980	0	882	766	0	0	766
Unchahaar-I TPS	420	20	24	21	0	0	21
Unchahaar-II TPS	420	63	47	41	0	0	41
Unchahaar-III TPS	210	31	29	25	0	0	25
TOTAL	**8782**	**1005**	**2321**	**2029**	**0**	**0**	**2029**
NHPC							
Baira Suil HPS	180	0	20	19	0	0	19
Salal HPS	690	0	80	76	0	0	76
Tanakpur HEP	94	0	12	11	0	0	11
Chamera HEP	540	0	43	41	0	0	41
Chamera-II HEP	300	54	40	38	0	0	38
URI HEP	480	0	53	50	0	0	50
Dhauli Ganga HEP	280	42	37	35	0	0	35
Dulhasti HEP	390	58	50	48	0	0	48
TOTAL	**2954**	**154**	**335**	**318**	**0**	**0**	**318**
NPC							
Narora APS	440	64	47	41	0	0	41
RAPP(B)	440	66	0	0	0	0	0
RAPP (C)	220	32	28	24	0	0	24
TOTAL	**1100**	**162**	**75**	**65**	**0**	**0**	**65**
Nathpa Jhakri HEP (SJVNL)	1500	149	142	123	0	0	123
THDC							
Tehri Hydro	1000	99	103	89	0	0	89
Total	**15336**	**1569**	**2976**	**2625**	**0**	**0**	**2625**
Allocation from ER and Tala HEP							
Farakka	1600	0	30	25	0	0	25
Kahalgaon	840	0	63	53	0	0	53
Talchar	1000	0	0	0	0	0	0
Tala HEP	1020	153	30	25	0	0	25
Mejia TPS Unit-6	250	0	29	25	0	0	25
Kahalgaon-II	1000	0	108	90	0	0	90
Total ER	**5710**	**153**	**260**	**217**	**0**	**0**	**217**
Grand Total	**21046**	**1722**	**3236**	**2842**	**0**	**0**	**2842**

ii) Time Block 18.00hrs. to 23.00hrs. @ 0% allocation from Central Sector Generating Stations and 3.18% from RAPP-B

All figures in MW

Name of the Stn	Installed capacity	Total Un-allocated	Basic Allocation	Basic Allocation at periphery	Allocation out of Unallocated Quota	Allocation out of Un-allocation Quota at Delhi periphery	Total allocation at Delhi periphery
1	2	3	4	5	6	7	(8)=(5)+(7)
NTPC STATIONS							
Singrauli STPS	2000	300	150	130	0	0	130
Rihand	1000	150	100	87	0	0	87
Rihand Stage -II	1000	150	126	109	0	0	109
ANTA GPS	419	63	44	41	0	0	41
Auriya GPS	663.36	99	72	67	0	0	67
Dadri GPS	829.78	129	91	85	0	0	85
Dadri NCTPS (Th)	840	0	756	657	0	0	657
Dadri NCTPS (Th) Stage-II	980	0	882	766	0	0	766
Unchahaar-I TPS	420	20	24	21	0	0	21
Unchahaar-II TPS	420	63	47	41	0	0	41
Unchahaar-III TPS	210	31	29	25	0	0	25
TOTAL	**8292**	**1005**	**1880**	**1646**	**0**	**0**	**2029**
NHPC							
Baira Suil HPS	180	0	20	19	0	0	19
Salal HPS	690	0	80	76	0	0	76
Tanakpur HEP	94	0	12	11	0	0	11
Chamera HEP	540	0	43	41	0	0	41
Chamera-II HEP	300	54	40	38	0	0	38
URI HEP	480	0	53	50	0	0	50
Dhauli Ganga HEP	280	42	37	35	0	0	35
Dulhasti HEP	390	58	50	48	0	0	48
TOTAL	**2954**	**154**	**335**	**318**	**0**	**0**	**318**
NPC							
Narora APS	440	64	47	41	0	0	41
RAPP(B)	440	66	0	0	14	12	12
RAPP (C)	220	32	28	24	0	0	24
TOTAL	**1100**	**162**	**75**	**65**	**14**	**12**	**77**
SVJNL							
Nathpa Jhakri HEP	1500	149	142	123	0	0	123
THDC							
Tehri Hydro	1000	99	103	89	0	0	89
Total	**14846**	**1569**	**2535**	**2242**	**14**	**12**	**2638**
Allocation from ER and Tala HEP							
Farakka	1600	0	30	25	0	0	25
Kahalgaon	840	0	63	53	0	0	53
Talchar	1000	0	0	0	0	0	0
Tala HEP	1020	153	30	25	0	0	25
Mejia TPS Unit-6	250	0	29	25	0	0	25
Kahalgaon-II	1000	0	108	90	0	0	90
Total ER	**5710**	**153**	**260**	**217**	**0**	**0**	**217**
Grand Total	**20556**	**1722**	**2795**	**2459**	**14**	**12**	**2854**

B) Allocation from Central Sector Generating Stations to Delhi w.e.f. 28.04.2010

i) TIME BLOCK - 00.00hrs & 10.00hrs. and 23.00-24.00hrs @ 0% from unallocated quota of Central Sector Generating Stations

All figures in MW

Name of the Stn	Installed capacity	Total Un-allocated	Basic Allocation	Basic Allocation at periphery	Allocation out of Unallocated Quota	Allocation out of Un-allocation Quota at Delhi periphery	Total allocation at Delhi periphery
1	2	3	4	5	6	7	(8)=(5)+(7)
NTPC STATIONS							
Singrauli STPS	2000	300	150	130	0	0	130
Rihand	1000	150	100	87	0	0	87
Rihand Stage -II	1000	150	126	109	0	0	109
ANTA GPS	419	63	44	41	0	0	41
Auriya GPS	663.36	99	72	67	0	0	67
Dadri GPS	829.78	129	91	85	0	0	85
Dadri NCTPS (Th)	840	0	756	657	0	0	657
Dadri NCTPS (Th) Stage-II	980	0	882	766	0	0	766
Unchahaar-I TPS	420	20	24	21	0	0	21
Unchahaar-II TPS	420	63	47	41	0	0	41
Unchahaar-III TPS	210	31	29	25	0	0	25
TOTAL	**8782**	**1005**	**2321**	**2029**	**0**	**0**	**2029**
NHPC							
Baira Suil HPS	180	0	20	19	0	0	19
Salal HPS	690	0	80	76	0	0	76
Tanakpur HEP	94	0	12	11	0	0	11
Chamera HEP	540	0	43	41	0	0	41
Chamera-II HEP	300	54	40	38	0	0	38
URI HEP	480	0	53	50	0	0	50
Dhauli Ganga HEP	280	42	37	35	0	0	35
Dulhasti HEP	390	58	50	48	0	0	48
TOTAL	**2954**	**154**	**335**	**318**	**0**	**0**	**318**
NPC							
Narora APS	440	64	47	41	0	0	41
RAPP(B)	440	66	0	0	0	0	0
RAPP (C)	440	64	56	49	0	0	49
TOTAL	**1320**	**194**	**103**	**89**	**0**	**0**	**89**
SVJNL							
Nathpa Jhakri HEP	1500	149	142	123	0	0	123
THDC							
Tehri Hydro	1000	99	103	89	0	0	89
Total	**15556**	**1601**	**3004**	**2650**	**0**	**0**	**2650**
Allocation from ER and Tala HEP							
Farakka	1600	0	22	19	0	0	19
Kahalgaon	840	0	51	43	0	0	43
Talchar	1000	0	0	0	0	0	0
Tala HEP	1020	153	30	25	0	0	25
Mejia TPS Unit-6	250	0	29	25	0	0	25
Kahalgaon-II	1500	0	157	131	0	0	131
Total ER	**6210**	**153**	**290**	**242**	**0**	**0**	**242**
Grand Total	**21766**	**1754**	**3293**	**2892**	**0**	**0**	**2892**

ii) TIME BLOCK - 18.00-23.00hrs @ 9% from unallocated quota of Central Sector Generating Stations

All figures in MW

Name of the Stn	Installed capacity	Total Un-allocated	Basic Allocation	Basic Allocation at periphery	Allocation out of Unallocated Quota	Allocation out of Un-allocation Quota at Delhi periphery	Total allocation at Delhi periphery
1	2	3	4	5	6	7	(8)=(5)+(7)
NTPC STATIONS							
Singrauli STPS	2000	300	150	130	20	18	148
Rihand	1000	150	100	87	10	9	96
Rihand Stage -II	1000	150	126	109	10	9	118
ANTA GPS	419	63	44	41	4	4	45
Auriya GPS	663.36	99	72	67	5	4	71
Dadri GPS	829.78	129	91	85	4	4	88
Dadri NCTPS (Th)	840	0	756	657	0	0	657
Dadri NCTPS (Th) Stage-II	980	0	882	766	0	0	766
Unchahaar-I TPS	420	20	24	21	1	1	22
Unchahaar-II TPS	420	63	47	41	4	4	45
Unchahaar-III TPS	210	31	29	25	2	2	27
TOTAL	**8782**	**1005**	**2321**	**2029**	**61**	**54**	**2083**
NHPC							
Baira Suil HPS	180	0	20	19	0	0	19
Salal HPS	690	0	80	76	0	0	76
Tanakpur HEP	94	0	12	11	0	0	11
Chamera HEP	540	0	43	41	0	0	41
Chamera-II HEP	300	54	40	38	4	3	41
URI HEP	480	0	53	50	0	0	50
Dhauli Ganga HEP	280	42	37	35	3	3	38
Dulhasti HEP	390	58	50	48	4	4	51
TOTAL	**2954**	**154**	**335**	**318**	**10**	**10**	**328**
NPC							
Narora APS	440	64	47	41	4	4	45
RAPP(B) Unit-3 APS	220	33	0	0	7	6	6
RAPP(B) Unit-4 APS	220	33	0	0	7	6	6
RAPP (C)	440	64	56	49	8	7	55
TOTAL	**1320**	**194**	**103**	**89**	**26**	**22**	**112**
SVJNL							
Nathpa Jhakri HEP	1500	149	142	123	10	10	133
THDC							
Tehri Hydro	1000	99	103	89	7	6	96
Total	**15556**	**1601**	**3004**	**2650**	**114**	**102**	**2752**
Allocation from ER and Tala HEP							
Farakka	1600	0	22	19	0	0	19
Kahalgaon	840	0	51	43	0	0	43
Talchar	1000	0	0	0	0	0	0
Tala HEP	1020	153	30	25	0	0	25
Mejia TPS Unit-6	250	0	29	25	0	0	25
Kahalgaon-II	1500	0	157	131	0	0	131
Total ER	**6210**	**153**	**290**	**242**	**0**	**0**	**242**
Grand Total	**21766**	**1754**	**3293**	**2892**	**114**	**102**	**2994**

C) Allocation from Central Sector Generating Stations to Delhi w.e.f. 14.05.2010

i) TIME BLOCK - 00.00HRS.- 00.00-10.00hrs. and 23.00hrs. - 24.00hrs @ 0% from unallocated quota of Central Sector Generating Stations

All figures in MW

Name of the Stn	Installed capacity	Total Un-allocated	Basic Allocation	Basic Allocation at periphery	Allocation out of Unallocated Quota	Allocation out of Un-allocation Quota at Delhi periphery	Total allocation at Delhi periphery
1	2	3	4	5	6	7	(8)=(5)+(7)
NTPC STATIONS							
Singrauli STPS	2000	300	150	130	0	0	130
Rihand	1000	150	100	87	0	0	87
Rihand Stage -II	1000	150	126	109	0	0	109
ANTA GPS	419	63	44	41	0	0	41
Auriya GPS	663.36	99	72	67	0	0	67
Dadri GPS	829.78	129	91	85	0	0	85
Dadri NCTPS (Th)	840	0	756	657	0	0	657
Dadri NCTPS (Th) Stage-II	490	0	441	383	0	0	383
Unchahaar-I TPS	420	20	24	21	0	0	21
Unchahaar-II TPS	420	63	47	41	0	0	41
Unchahaar-III TPS	210	31	29	25	0	0	25
TOTAL	**8292**	**1005**	**1880**	**1646**	**0**	**0**	**1646**
NHPC							
Baira Suil HPS	180	0	20	19	0	0	19
Salal HPS	690	0	80	76	0	0	76
Tanakpur HEP	94	0	12	11	0	0	11
Chamera HEP	540	0	43	41	0	0	41
Chamera-II HEP	300	54	40	38	0	0	38
URI HEP	480	0	53	50	0	0	50
Dhauli Ganga HEP	280	42	37	35	0	0	35
Dulhasti HEP	390	58	50	48	0	0	48
TOTAL	**2954**	**154**	**335**	**318**	**0**	**0**	**318**
NPC							
Narora APS	440	64	47	41	0	0	41
RAPP(B)	440	66	0	0	0	0	0
RAPP (C)	440	64	56	49	0	0	49
TOTAL	**1320**	**194**	**103**	**89**	**0**	**0**	**89**
SVJNL							
Nathpa Jhakri HEP	1500	149	142	123	0	0	123
THDC							
Tehri Hydro	1000	99	103	89	0	0	89
Total	**15066**	**1601**	**2563**	**2267**	**0**	**0**	**2267**
Allocation from ER and TalaHEP							
Farakka	1600	0	22	19	0	0	19
Kahalgaon	840	0	51	43	0	0	43
Talchar	1000	0	0	0	0	0	0
Tala HEP	1020	153	30	25	0	0	25
Mejia TPS Unit-6	250	0	29	25	0	0	25
Kahalgaon-II	1500	0	157	131	0	0	131
Total ER	**6210**	**153**	**290**	**242**	**0**	**0**	**242**
Grand Total	**21276**	**1754**	**2852**	**2508**	**0**	**0**	**2508**

ii) Time Block 10.00HRS. - 18.00hrs. to 23.00hrs. @ 8% Un-allocated quota of Central Sector Generating Stations (without RAPP Unit-3 & 4)

All figures in MW

Name of the Stn	Installed capacity	Total Un-allocated	Basic Allocation	Basic Allocation at periphery	Allocation out of Unallocated Quota	Allocation out of Un-allocation Quota at Delhi periphery	Total allocation at Delhi periphery
1	2	3	4	5	6	7	(8)=(5)+(7)
NTPC STATIONS							
Singrauli STPS	2000	300	150	130	19	17	147
Rihand	1000	150	100	87	10	8	95
Rihand Stage -II	1000	150	126	109	10	8	118
ANTA GPS	419	63	44	41	4	4	45
Auriya GPS	663.36	99	72	67	4	4	71
Dadri GPS	829.78	129	91	85	4	3	88
Dadri NCTPS (Th)	840	0	756	657	0	0	657
Dadri NCTPS (Th) Stage-II	490	0	441	383	0	0	383
Unchahaar-I TPS	420	20	24	21	1	1	22
Unchahaar-II TPS	420	63	47	41	4	4	44
Unchahaar-III TPS	210	31	29	25	2	2	27
TOTAL	**8292**	**1005**	**1880**	**1646**	**58**	**51**	**1697**
NHPC							
Baira Suil HPS	180	0	20	19	0	0	19
Salal HPS	690	0	80	76	0	0	76
Tanakpur HEP	94	0	12	11	0	0	11
Chamera HEP	540	0	43	41	0	0	41
Chamera-II HEP	300	54	40	38	5	4	42
URI HEP	480	0	53	50	0	0	50
Dhauli Ganga HEP	280	42	37	35	3	3	38
Dulhasti HEP	390	58	50	48	4	4	51
TOTAL	**2954**	**154**	**335**	**318**	**11**	**11**	**329**
NPC							
Narora APS	440	64	47	41	4	4	44
RAPP(B) Unit-3 APS	220	33	0	0	0	0	0
RAPP(B) Unit-4 APS	220	33	0	0	0	0	0
RAPP (C)	440	64	56	49	7	6	54
TOTAL	**1320**	**194**	**103**	**89**	**11**	**9**	**99**
SVJNL							
Nathpa Jhakri HEP	1500	149	142	123	9	9	132
THDC							
Tehri Hydro	1000	99	103	89	6	6	95
Total	**15066**	**1601**	**2563**	**2267**	**95**	**86**	**2352**
Allocation from ER and Tala HEP							
Farakka	1600	0	22	19	0	0	19
Kahalgaon	840	0	51	43	0	0	43
Talchar	1000	0	0	0	0	0	0
Tala HEP	1020	153	30	25	0	0	25
Mejia TPS Unit-6	250	0	29	25	0	0	25
Kahalgaon-II	1500	0	157	131	0	0	131
Total ER	**6210**	**153**	**290**	**242**	**0**	**0**	**242**
Grand Total	**21276**	**1754**	**2852**	**2508**	**95**	**86**	**2594**

iii) Time Block 10.00HRS. - 18.00hrs. to 23.00hrs. @ 8% Un-allocated quota of Central Sector Generating Stations (with RAPP Unit-3 & 4)

All figures in MW

Name of the Stn	Installed capacity	Total Un-allocated	Basic Allocation	Basic Allocation at periphery	Allocation out of Unallocated Quota	Allocation out of Un-allocation Quota at Delhi periphery	Total allocation at Delhi periphery
1	2	3	4	5	6	7	(8)=(5)+(7)
NTPC STATIONS							
Singrauli STPS	2000	300	150	130	19	17	147
Rihand	1000	150	100	87	10	8	95
Rihand Stage -II	1000	150	126	109	10	8	118
ANTA GPS	419	63	44	41	4	4	45
Auriya GPS	663.36	99	72	67	4	4	71
Dadri GPS	829.78	129	91	85	4	3	88
Dadri NCTPS (Th)	840	0	756	657	0	0	657
Dadri NCTPS (Th) Stage-II	490	0	441	383	0	0	383
Unchahaar-I TPS	420	20	24	21	1	1	22
Unchahaar-II TPS	420	63	47	41	4	4	44
Unchahaar-III TPS	210	31	29	25	2	2	27
TOTAL	**8292**	**1005**	**1880**	**1646**	**58**	**51**	**1697**
NHPC							
Baira Suil HPS	180	0	20	19	0	0	19
Salal HPS	690	0	80	76	0	0	76
Tanakpur HEP	94	0	12	11	0	0	11
Chamera HEP	540	0	43	41	0	0	41
Chamera-II HEP	300	54	40	38	5	4	42
URI HEP	480	0	53	50	0	0	50
Dhauli Ganga HEP	280	42	37	35	3	3	38
Dulhasti HEP	390	58	50	48	4	4	51
TOTAL	**2954**	**154**	**335**	**318**	**11**	**11**	**329**
NPC							
Narora APS	440	64	47	41	4	4	44
RAPP(B) Unit-3 APS	220	33	0	0	7	6	6
RAPP(B) Unit-4 APS	220	33	0	0	7	6	6
RAPP (C)	440	64	56	49	7	6	54
TOTAL	**1320**	**194**	**103**	**89**	**25**	**22**	**111**
SVJNL							
Nathpa Jhakri HEP	1500	149	142	123	9	9	132
THDC							
Tehri Hydro	1000	99	103	89	6	6	95
Total	**15066**	**1601**	**2563**	**2267**	**109**	**98**	**2364**
Allocation from ER and Tala HEP							
Farakka	1600	0	22	19	0	0	19
Kahalgaon	840	0	51	43	0	0	43
Talchar	1000	0	0	0	0	0	0
Tala HEP	1020	153	30	25	0	0	25
Mejia TPS Unit-6	250	0	29	25	0	0	25
Kahalgaon-II	1500	0	157	131	0	0	131
Total ER	**6210**	**153**	**290**	**242**	**0**	**0**	**242**
Grand Total	**21276**	**1754**	**2852**	**2508**	**109**	**98**	**2606**

D) Allocation from Unallocated quota of Central Sector Generating Stations to Delhi w.e.f. 02.07.2010

i) TIME BLOCK - 00.00-10.00hrs. and 23.00hrs. - 24.00hrs @ 0%

All figures in MW

Name of the Stn	Installed capacity	Total Un-allocated	Basic Allocation	Basic Allocation at periphery	Allocation out of Unallocated Quota	Allocation out of Un-allocated Quota at Delhi periphery	Total allocation at Delhi periphery
1	2	3	4	5	6	7	(8)=(5)+(7)
NTPC STATIONS							
Singrauli STPS	2000	300	150	130	0	0	130
Rihand	1000	150	100	87	0	0	87
Rihand Stage -II	1000	150	126	109	0	0	109
ANTA GPS	419	63	44	41	0	0	41
Auriya GPS	663.36	99	72	67	0	0	67
Dadri GPS	829.78	129	91	85	0	0	85
Dadri NCTPS (Th)	840	0	756	657	0	0	657
Dadri NCTPS (Th) Stage-II	490	0	441	383	0	0	383
Unchahaar-I TPS	420	20	24	21	0	0	21
Unchahaar-II TPS	420	63	47	41	0	0	41
Unchahaar-III TPS	210	31	29	25	0	0	25
TOTAL	**8292**	**1005**	**1880**	**1646**	**0**	**0**	**1646**
NHPC							
Baira Suil HPS	180	0	20	19	0	0	19
Salal HPS	690	0	80	76	0	0	76
Tanakpur HEP	94	0	12	11	0	0	11
Chamera HEP	540	0	43	41	0	0	41
Chamera-II HEP	300	54	40	38	0	0	38
URI HEP	480	0	53	50	0	0	50
Sewa HEP	80	12	11	10	0	0	10
Dhauli Ganga HEP	280	42	37	35	0	0	35
Dulhasti HEP	390	58	50	48	0	0	48
TOTAL	**3034**	**166**	**345**	**328**	**0**	**0**	**328**
NPC							
Narora APS	440	64	47	41	0	0	41
RAPP(B)	440	66	0	0	0	0	0
RAPP (C)	440	64	56	49	0	0	49
TOTAL	**1320**	**194**	**103**	**89**	**0**	**0**	**89**
SVJNL							
Nathpa Jhakri HEP	1500	149	142	123	0	0	123
THDC							
Tehri Hydro	1000	99	103	89	0	0	89
Total	**15146**	**1613**	**2573**	**2277**	**0**	**0**	**2277**
Allocation from ER and Tala HEP							
Farakka	1600	0	22	19	0	0	19
Kahalgaon	840	0	51	43	0	0	43
Talchar	1000	0	0	0	0	0	0
Tala HEP	1020	153	30	25	0	0	25
Mejia TPS Unit-6	250	0	29	25	0	0	25
Kahalgaon-II	1500	0	157	131	0	0	131
Total ER	**6210**	**153**	**290**	**242**	**0**	**0**	**242**
Grand Total	**21356**	**1766**	**2863**	**2519**	**0**	**0**	**2519**

ii) Time Block 10.00HRS. - 18.00hrs. @ 8% Un-allocated quota of Central Sector Generating Stations (without RAPP Unit-3 & 4)

All figures in MW

Name of the Stn	Installed capacity	Total Un-allocated	Basic Allocation	Basic Allocation at periphery	Allocation out of Unallocated Quota	Allocation out of Un-allocation Quota at Delhi periphery	Total allocation at Delhi periphery
1	2	3	4	5	6	7	(8)=(5)+(7)
NTPC STATIONS							
Singrauli STPS	2000	300	150	130	19	17	147
Rihand	1000	150	100	87	10	8	95
Rihand Stage -II	1000	150	126	109	10	8	118
ANTA GPS	419	63	44	41	4	4	45
Auriya GPS	663.36	99	72	67	4	4	71
Dadri GPS	829.78	129	91	85	4	3	88
Dadri NCTPS (Th)	840	0	756	657	0	0	657
Dadri NCTPS (Th) Stage-II	490	0	441	383	0	0	383
Unchahaar-I TPS	420	20	24	21	1	1	22
Unchahaar-II TPS	420	63	47	41	4	4	44
Unchahaar-III TPS	210	31	29	25	2	2	27
TOTAL	**8292**	**1005**	**1880**	**1646**	**58**	**51**	**1697**
NHPC							
Baira Suil HPS	180	0	20	19	0	0	19
Salal HPS	690	0	80	76	0	0	76
Tanakpur HEP	94	0	12	11	0	0	11
Chamera HEP	540	0	43	41	0	0	41
Chamera-II HEP	300	54	40	38	5	4	42
URI HEP	480	0	53	50	0	0	50
Sewa HEP	80	12	11	10	1	1	11
Dhauli Ganga HEP	280	42	37	35	3	3	38
Dulhasti HEP	390	58	50	48	4	4	51
TOTAL	**3034**	**166**	**345**	**328**	**12**	**11**	**340**
NPC							
Narora APS	440	64	47	41	4	4	44
RAPP(B) Unit-3 APS	220	33	0	0	0	0	0
RAPP(B) Unit-4 APS	220	33	0	0	0	0	0
RAPP (C)	440	64	56	49	7	6	54
TOTAL	**1320**	**194**	**103**	**89**	**11**	**9**	**99**
SVJNL							
Nathpa Jhakri HEP	1500	149	142	123	9	9	132
THDC							
Tehri Hydro	1000	99	103	89	6	6	95
Total	**15146**	**1613**	**2573**	**2277**	**96**	**87**	**2363**
Allocation from ER and Tala HEP							
Farakka	1600	0	22	19	0	0	19
Kahalgaon	840	0	51	43	0	0	43
Talchar	1000	0	0	0	0	0	0
Tala HEP	1020	153	30	25	0	0	25
Mejia TPS Unit-6	250	0	29	25	0	0	25
Kahalgaon-II	1500	0	157	131	0	0	131
Total ER	**6210**	**153**	**290**	**242**	**0**	**0**	**242**
Grand Total	**21356**	**1766**	**2863**	**2519**	**96**	**87**	**2605**

iii) Time Block 18.00hrs. to 23.00hrs. @ 8% Un-allocated quota of Central Sector Generating Stations (with RAPP Unit-3 & 4)

All figures in MW

Name of the Stn	Installed capacity	Total Un-allocated	Basic Allocation	Basic Allocation at periphery	Allocation out of Unallocated Quota	Allocation out of Un-allocation Quota at Delhi periphery	Total allocation at Delhi periphery
1	2	3	4	5	6	7	(8)=(5)+(7)
NTPC STATIONS							
Singrauli STPS	2000	300	150	130	19	17	147
Rihand	1000	150	100	87	10	8	95
Rihand Stage -II	1000	150	126	109	10	8	118
ANTA GPS	419	63	44	41	4	4	45
Auriya GPS	663.36	99	72	67	4	4	71
Dadri GPS	829.78	129	91	85	4	3	88
Dadri NCTPS (Th)	840	0	756	657	0	0	657
Dadri NCTPS (Th) Stage-II	490	0	441	383	0	0	383
Unchahaar-I TPS	420	20	24	21	1	1	22
Unchahaar-II TPS	420	63	47	41	4	4	44
Unchahaar-III TPS	210	31	29	25	2	2	27
TOTAL	**8292**	**1005**	**1880**	**1646**	**58**	**51**	**1697**
NHPC							
Baira Suil HPS	180	0	20	19	0	0	19
Salal HPS	690	0	80	76	0	0	76
Tanakpur HEP	94	0	12	11	0	0	11
Chamera HEP	540	0	43	41	0	0	41
Chamera-II HEP	300	54	40	38	5	4	42
URI HEP	480	0	53	50	0	0	50
Sewa HEP	80	12	11	10	1	1	11
Dhauli Ganga HEP	280	42	37	35	3	3	38
Dulhasti HEP	390	58	50	48	4	4	51
TOTAL	**3034**	**166**	**345**	**328**	**12**	**11**	**340**
NPC							
Narora APS	440	64	47	41	4	4	44
RAPP(B) Unit-3 APS	220	33	0	0	7	6	6
RAPP(B) Unit-4 APS	220	33	0	0	7	6	6
RAPP (C)	440	64	56	49	7	6	54
TOTAL	**1320**	**194**	**103**	**89**	**25**	**22**	**111**
SVJNL							
Nathpa Jhakri HEP	1500	149	142	123	9	9	132
THDC							
Tehri Hydro	1000	99	103	89	6	6	95
Total	**15146**	**1613**	**2573**	**2277**	**110**	**99**	**2376**
Allocation from ER and Tala HEP							
Farakka	1600	0	22	19	0	0	19
Kahalgaon	840	0	51	43	0	0	43
Talchar	1000	0	0	0	0	0	0
Tala HEP	1020	153	30	25	0	0	25
Mejia TPS Unit-6	250	0	29	25	0	0	25
Kahalgaon-II	1500	0	157	131	0	0	131
Total ER	**6210**	**153**	**290**	**242**	**0**	**0**	**242**
Grand Total	**21356**	**1766**	**2863**	**2519**	**110**	**99**	**2617**

E) Allocation from Unallocated quota of Central Sector Generating Stations to Delhi w.e.f. 24.07.2010

i) TIME BLOCK - 00.00-10.00hrs. and 23.00hrs. - 24.00hrs @ 0%

All figures in MW

Name of the Stn	Installed capacity	Total Un-allocated	Basic Allocation	Basic Allocation at periphery	Allocation out of Unallocated Quota	Allocation out of Un-allocated Quota at Delhi periphery	Total allocation at Delhi periphery
1	2	3	4	5	6	7	(8)=(5)+(7)
NTPC STATIONS							
Singrauli STPS	2000	300	150	130	0	0	130
Rihand	1000	150	100	87	0	0	87
Rihand Stage -II	1000	150	126	109	0	0	109
ANTA GPS	419	63	44	41	0	0	41
Auriya GPS	663.36	99	72	67	0	0	67
Dadri GPS	829.78	129	91	85	0	0	85
Dadri NCTPS (Th)	840	0	756	657	0	0	657
Dadri NCTPS (Th) Stage-II	980	0	882	766	0	0	766
Unchahaar-I TPS	420	20	24	21	0	0	21
Unchahaar-II TPS	420	63	47	41	0	0	41
Unchahaar-III TPS	210	31	29	25	0	0	25
TOTAL	**8782**	**1005**	**2321**	**2029**	**0**	**0**	**2029**
NHPC							
Baira Suil HPS	180	0	20	19	0	0	19
Salal HPS	690	0	80	76	0	0	76
Tanakpur HEP	94	0	12	11	0	0	11
Chamera HEP	540	0	43	41	0	0	41
Chamera-II HEP	300	54	40	38	0	0	38
URI HEP	480	0	53	50	0	0	50
Sewa HEP	120	18	16	15	0	0	15
Dhauli Ganga HEP	280	42	37	35	0	0	35
Dulhasti HEP	390	58	50	48	0	0	48
TOTAL	**3074**	**172**	**351**	**333**	**0**	**0**	**333**
NPC							
Narora APS	440	64	47	41	0	0	41
RAPP(B)	440	66	0	0	0	0	0
RAPP (C)	440	64	56	49	0	0	49
TOTAL	**1320**	**194**	**103**	**89**	**0**	**0**	**89**
SVJNL							
Nathpa Jhakri HEP	1500	149	142	123	0	0	123
THDC							
Tehri Hydro	1000	99	103	89	0	0	89
Total	**15676**	**1619**	**3020**	**2665**	**0**	**0**	**2665**
Allocation from ER and Tala HEP							
Farakka	1600	0	22	19	0	0	19
Kahalgaon	840	0	51	43	0	0	43
Talchar	1000	0	0	0	0	0	0
Tala HEP	1020	153	30	25	0	0	25
Mejia TPS Unit-6	250	0	29	25	0	0	25
Kahalgaon-II	1500	0	157	131	0	0	131
Total ER	**6210**	**153**	**290**	**242**	**0**	**0**	**242**
Grand Total	**21886**	**1772**	**3309**	**2907**	**0**	**0**	**2907**

ii) Time Block 10.00HRS. - 18.00hrs. @ 8% Un-allocated quota of Central Sector Generating Stations (without RAPP Unit-3 & 4)

All figures in MW

Name of the Stn	Installed capacity	Total Un-allocated	Basic Allocation	Basic Allocation at periphery	Allocation out of Unallocated Quota	Allocation out of Un-allocation Quota at Delhi periphery	Total allocation at Delhi periphery
1	2	3	4	5	6	7	(8)=(5)+(7)
NTPC STATIONS							
Singrauli STPS	2000	300	150	130	19	17	147
Rihand	1000	150	100	87	10	8	95
Rihand Stage -II	1000	150	126	109	10	8	118
ANTA GPS	419	63	44	41	4	4	45
Auriya GPS	663.36	99	72	67	4	4	71
Dadri GPS	829.78	129	91	85	4	3	88
Dadri NCTPS (Th)	840	0	756	657	0	0	657
Dadri NCTPS (Th) Stage-II	980	0	882	766	0	0	766
Unchahaar-I TPS	420	20	24	21	1	1	22
Unchahaar-II TPS	420	63	47	41	4	4	44
Unchahaar-III TPS	210	31	29	25	2	2	27
TOTAL	**8782**	**1005**	**2321**	**2029**	**58**	**51**	**2080**
NHPC							
Baira Suil HPS	180	0	20	19	0	0	19
Salal HPS	690	0	80	76	0	0	76
Tanakpur HEP	94	0	12	11	0	0	11
Chamera HEP	540	0	43	41	0	0	41
Chamera-II HEP	300	54	40	38	5	4	42
URI HEP	480	0	53	50	0	0	50
Sewa HEP	120	18	16	15	1	1	17
Dhauli Ganga HEP	280	42	37	35	3	3	38
Dulhasti HEP	390	58	50	48	4	4	51
TOTAL	**3074**	**172**	**351**	**333**	**13**	**12**	**345**
NPC							
Narora APS	440	64	47	41	4	4	44
RAPP(B) Unit-3 APS	220	33	0	0	0	0	0
RAPP(B) Unit-4 APS	220	33	0	0	0	0	0
RAPP (C)	440	64	56	49	7	6	54
TOTAL	**1320**	**194**	**103**	**89**	**11**	**9**	**99**
SVJNL							
Nathpa Jhakri HEP	1500	149	142	123	9	9	132
THDC							
Tehri Hydro	1000	99	103	89	6	6	95
Total	**15676**	**1619**	**3020**	**2665**	**97**	**87**	**2752**
Allocation from ER and Tala HEP							
Farakka	1600	0	22	19	0	0	19
Kahalgaon	840	0	51	43	0	0	43
Talchar	1000	0	0	0	0	0	0
Tala HEP	1020	153	30	25	0	0	25
Mejia TPS Unit-6	250	0	29	25	0	0	25
Kahalgaon-II	1500	0	157	131	0	0	131
Total ER	**6210**	**153**	**290**	**242**	**0**	**0**	**242**
Grand Total	**21886**	**1772**	**3309**	**2907**	**97**	**87**	**2994**

iii) Time Block 18.00hrs. to 23.00hrs. @ 8% Un-allocated quota of Central Sector Generating Stations (with RAPP Unit-3 & 4)

All figures in MW

Name of the Stn	Installed capacity	Total Un-allocated	Basic Allocation	Basic Allocation at periphery	Allocation out of Unallocated Quota	Allocation out of Un-allocation Quota at Delhi periphery	Total allocation at Delhi periphery
1	2	3	4	5	6	7	(8)=(5)+(7)
NTPC STATIONS							
Singrauli STPS	2000	300	150	130	19	17	147
Rihand	1000	150	100	87	10	8	95
Rihand Stage -II	1000	150	126	109	10	8	118
ANTA GPS	419	63	44	41	4	4	45
Auriya GPS	663.36	99	72	67	4	4	71
Dadri GPS	829.78	129	91	85	4	3	88
Dadri NCTPS (Th)	840	0	756	657	0	0	657
Dadri NCTPS (Th) Stage-II	980	0	882	766	0	0	766
Unchahaar-I TPS	420	20	24	21	1	1	22
Unchahaar-II TPS	420	63	47	41	4	4	44
Unchahaar-III TPS	210	31	29	25	2	2	27
TOTAL	**8782**	**1005**	**2321**	**2029**	**58**	**51**	**2080**
NHPC							
Baira Suil HPS	180	0	20	19	0	0	19
Salal HPS	690	0	80	76	0	0	76
Tanakpur HEP	94	0	12	11	0	0	11
Chamera HEP	540	0	43	41	0	0	41
Chamera-II HEP	300	54	40	38	5	4	42
URI HEP	480	0	53	50	0	0	50
Sewa HEP	120	18	16	15	1	1	17
Dhauli Ganga HEP	280	42	37	35	3	3	38
Dulhasti HEP	390	58	50	48	4	4	51
TOTAL	**3074**	**172**	**351**	**333**	**13**	**12**	**345**
NPC							
Narora APS	440	64	47	41	4	4	44
RAPP(B) Unit-3 APS	220	33	0	0	7	6	6
RAPP(B) Unit-4 APS	220	33	0	0	7	6	6
RAPP (C)	440	64	56	49	7	6	54
TOTAL	**1320**	**194**	**103**	**89**	**25**	**22**	**111**
SVJNL							
Nathpa Jhakri HEP	1500	149	142	123	9	9	132
THDC							
Tehri Hydro	1000	99	103	89	6	6	95
Total	**15676**	**1619**	**3020**	**2665**	**111**	**99**	**2764**
Allocation from ER and Tala HEP							
Farakka	1600	0	22	19	0	0	19
Kahalgaon	840	0	51	43	0	0	43
Talchar	1000	0	0	0	0	0	0
Tala HEP	1020	153	30	25	0	0	25
Mejia TPS Unit-6	250	0	29	25	0	0	25
Kahalgaon-II	1500	0	157	131	0	0	131
Total ER	**6210**	**153**	**290**	**242**	**0**	**0**	**242**
Grand Total	**21886**	**1772**	**3309**	**2907**	**111**	**99**	**3006**

F) Allocation from Unallocated quota of Central Sector Generating Stations to Delhi w.e.f. 01.10.2010

i) TIME BLOCK - 00.00-06.00hrs. and 23.00hrs. - 24.00hrs @ 0%

All figures in MW

Name of the Stn	Installed capacity	Total Un-allocated	Basic Allocation	Basic Allocation at periphery	Allocation out of Unallocated Quota	Allocation out of Un-allocation Quota at Delhi periphery	Total allocation at Delhi periphery
1	2	3	4	5	6	7	(8)=(5)+(7)
NTPC STATIONS							
Singrauli STPS	2000	300	150	130	0	0	130
Rihand	1000	150	100	87	0	0	87
Rihand Stage -II	1000	150	126	109	0	0	109
ANTA GPS	419	63	44	41	0	0	41
Auriya GPS	663.36	99	72	67	0	0	67
Dadri GPS	829.78	129	91	85	0	0	85
Dadri NCTPS (Th)	840	0	756	657	0	0	657
Dadri NCTPS (Th) Stage-II	980	0	882	766	0	0	766
Unchahaar-I TPS	420	20	24	21	0	0	21
Unchahaar-II TPS	420	63	47	41	0	0	41
Unchahaar-III TPS	210	31	29	25	0	0	25
TOTAL	8782	1005	2321	2029	0	0	2029
NHPC							
Baira Suil HPS	180	0	20	19	0	0	19
Salal HPS	690	0	80	76	0	0	76
Tanakpur HEP	94	0	12	11	0	0	11
Chamera HEP	540	0	43	41	0	0	41
Chamera-II HEP	300	54	40	38	0	0	38
URI HEP	480	0	53	50	0	0	50
Sewa HEP	120	18	16	15	0	0	15
Dhauli Ganga HEP	280	42	37	35	0	0	35
Dulhasti HEP	390	58	50	48	0	0	48
TOTAL	3074	172	351	333	0	0	333
NPC							
Narora APS	440	64	47	41	0	0	41
RAPP(B)	440	66	0	0	0	0	0
RAPP (C)	440	64	56	49	0	0	49
TOTAL	1320	194	103	89	0	0	89
SVJNL							
Nathpa Jhakri HEP	1500	149	142	123	0	0	123
THDC							
Tehri Hydro	1000	99	103	89	0	0	89
Total	15676	1619	3020	2665	0	0	2665
Allocation from ER and Tala HEP							
Farakka	1600	0	22	19	0	0	19
Kahalgaon	840	0	51	43	0	0	43
Talchar	1000	0	0	0	0	0	0
Tala HEP	1020	153	30	25	0	0	25
Mejia TPS Unit-6	250	0	29	25	0	0	25
Kahalgaon-II	1500	0	157	131	0	0	131
Total ER	6210	153	290	242	0	0	242
Grand Total	21886	1772	3309	2907	0	0	2907

ii) Time Block 10.00HRS. - 18.00hrs. @ 8% Un-allocated quota of Central Sector Generating Stations (without RAPP Unit-3 & 4)

All figures in MW

Name of the Stn	Installed capacity	Total Un-allocated	Basic Allocation	Basic Allocation at periphery	Allocation out of Unallocated Quota	Allocation out of Un-allocation Quota at Delhi periphery	Total allocation at Delhi periphery
1	2	3	4	5	6	7	(8)=(5)+(7)
NTPC STATIONS							
Singrauli STPS	2000	300	150	130	19	17	147
Rihand	1000	150	100	87	10	8	95
Rihand Stage -II	1000	150	126	109	10	8	118
ANTA GPS	419	63	44	41	4	4	45
Auriya GPS	663.36	99	72	67	4	4	71
Dadri GPS	829.78	129	91	85	4	3	88
Dadri NCTPS (Th)	840	0	756	657	0	0	657
Dadri NCTPS (Th) Stage-II	980	0	882	766	0	0	766
Unchahaar-I TPS	420	20	24	21	1	1	22
Unchahaar-II TPS	420	63	47	41	4	4	44
Unchahaar-III TPS	210	31	29	25	2	2	27
TOTAL	**8782**	**1005**	**2321**	**2029**	**58**	**51**	**2080**
NHPC							
Baira Suil HPS	180	0	20	19	0	0	19
Salal HPS	690	0	80	76	0	0	76
Tanakpur HEP	94	0	12	11	0	0	11
Chamera HEP	540	0	43	41	0	0	41
Chamera-II HEP	300	54	40	38	3	3	41
URI HEP	480	0	53	50	0	0	50
Sewa HEP	120	18	16	15	1	1	16
Dhauli Ganga HEP	280	42	37	35	3	3	38
Dulhasti HEP	390	58	50	48	4	4	51
TOTAL	**3074**	**172**	**351**	**333**	**11**	**10**	**344**
NPC							
Narora APS	440	64	47	41	4	4	44
RAPP(B) Unit-3 APS	220	33	0	0	0	0	0
RAPP(B) Unit-4 APS	220	33	0	0	0	0	0
RAPP (C)	440	64	56	49	4	4	52
TOTAL	**1320**	**194**	**103**	**89**	**8**	**7**	**96**
SVJNL							
Nathpa Jhakri HEP	1500	149	142	123	9	9	132
THDC							
Tehri Hydro	1000	99	103	89	6	6	95
Total	**15676**	**1619**	**3020**	**2665**	**93**	**83**	**2748**
Allocation from ER and Tala HEP							
Farakka	1600	0	22	19	0	0	19
Kahalgaon	840	0	51	43	0	0	43
Talchar	1000	0	0	0	0	0	0
Tala HEP	1020	153	30	25	0	0	25
Mejia TPS Unit-6	250	0	29	25	0	0	25
Kahalgaon-II	1500	0	157	131	0	0	131
Total ER	**6210**	**153**	**290**	**242**	**0**	**0**	**242**
Grand Total	**21886**	**1772**	**3309**	**2907**	**93**	**83**	**2990**

iii) Time Block 18.00hrs. to 23.00hrs. @ 8% Un-allocated quota of Central Sector Generating Stations (with RAPP Unit-3 & 4)

All figures in MW

Name of the Stn	Installed capacity	Total Un-allocated	Basic Allocation	Basic Allocation at periphery	Allocation out of Unallocated Quota	Allocation out of Un-allocation Quota at Delhi periphery	Total allocation at Delhi periphery
1	2	3	4	5	6	7	(8)=(5)+(7)
NTPC STATIONS							
Singrauli STPS	2000	300	150	130	19	17	147
Rihand	1000	150	100	87	10	8	95
Rihand Stage -II	1000	150	126	109	10	8	118
ANTA GPS	419	63	44	41	4	4	45
Auriya GPS	663.36	99	72	67	4	4	71
Dadri GPS	829.78	129	91	85	4	3	88
Dadri NCTPS (Th)	840	0	756	657	0	0	657
Dadri NCTPS (Th) Stage-II	980	0	882	766	0	0	766
Unchahaar-I TPS	420	20	24	21	1	1	22
Unchahaar-II TPS	420	63	47	41	4	4	44
Unchahaar-III TPS	210	31	29	25	2	2	27
TOTAL	**8782**	**1005**	**2321**	**2029**	**58**	**51**	**2080**
NHPC							
Baira Suil HPS	180	0	20	19	0	0	19
Salal HPS	690	0	80	76	0	0	76
Tanakpur HEP	94	0	12	11	0	0	11
Chamera HEP	540	0	43	41	0	0	41
Chamera-II HEP	300	54	40	38	3	3	41
URI HEP	480	0	53	50	0	0	50
Sewa HEP	120	18	16	15	1	1	16
Dhauli Ganga HEP	280	42	37	35	3	3	38
Dulhasti HEP	390	58	50	48	4	4	51
TOTAL	**3074**	**172**	**351**	**333**	**11**	**10**	**344**
NPC							
Narora APS	440	64	47	41	4	4	44
RAPP(B) Unit-3 APS	220	33	0	0	7	6	6
RAPP(B) Unit-4 APS	220	33	0	0	7	6	6
RAPP (C)	440	64	56	49	4	4	52
TOTAL	**1320**	**194**	**103**	**89**	**22**	**19**	**109**
SVJNL							
Nathpa Jhakri HEP	1500	149	142	123	9	9	132
THDC							
Tehri Hydro	1000	99	103	89	6	6	95
Total	**15676**	**1619**	**3020**	**2665**	**107**	**96**	**2760**
Allocation from ER and Tala HEP							
Farakka	1600	0	22	19	0	0	19
Kahalgaon	840	0	51	43	0	0	43
Talchar	1000	0	0	0	0	0	0
Tala HEP	1020	153	30	25	0	0	25
Mejia TPS Unit-6	250	0	29	25	0	0	25
Kahalgaon-II	1500	0	157	131	0	0	131
Total ER	**6210**	**153**	**290**	**242**	**0**	**0**	**242**
Grand Total	**21886**	**1772**	**3309**	**2907**	**107**	**96**	**3002**

G) Allocation from Unallocated quota of Central Sector Generating Stations to Delhi w.e.f.01.01.2011

i) TIME BLOCK - 00.00-10.00hrs. and 23.00hrs. - 24.00hrs @ 0%

All figures in MW

Name of the Stn	Installed capacity	Total Un-allocated	Basic Allocation	Basic Allocation at periphery	Allocation out of Unallocated Quota	Allocation out of Un-allocation Quota at Delhi periphery	Total allocation at Delhi periphery
1	2	3	4	5	6	7	(8)=(5)+(7)
NTPC STATIONS							
Singrauli STPS	2000	300	150	130	0	0	130
Rihand	1000	150	100	87	0	0	87
Rihand Stage –II	1000	150	126	109	0	0	109
ANTA GPS	419	63	44	41	0	0	41
Auriya GPS	663.36	99	72	67	0	0	67
Dadri GPS	829.78	129	91	85	0	0	85
Dadri NCTPS (Th)	840	0	756	657	0	0	657
Dadri NCTPS (Th) Stage-II	980	0	882	766	0	0	766
Unchahaar-I TPS	420	20	24	21	0	0	21
Unchahaar-II TPS	420	63	47	41	0	0	41
Unchahaar-III TPS	210	31	29	25	0	0	25
TOTAL	**8782**	**1005**	**2321**	**2029**	**0**	**0**	**2029**
NHPC							
Baira Suil HPS	180	0	20	19	0	0	19
Salal HPS	690	0	80	76	0	0	76
Tanakpur HEP	94	0	12	11	0	0	11
Chamera HEP	540	0	43	41	0	0	41
Chamera-II HEP	300	54	40	38	0	0	38
URI HEP	480	0	53	50	0	0	50
Sewa HEP	120	18	16	15	0	0	15
Dhauli Ganga HEP	280	42	37	35	0	0	35
Dulhasti HEP	390	58	50	48	0	0	48
TOTAL	**3074**	**172**	**351**	**333**	**0**	**0**	**333**
NPC							
Narora APS	440	64	47	41	0	0	41
RAPP(B)	440	66	0	0	0	0	0
RAPP (C)	440	64	56	49	0	0	49
TOTAL	**1320**	**194**	**103**	**89**	**0**	**0**	**89**
SVJNL							
Nathpa Jhakri HEP	1500	149	142	123	0	0	123
THDC							
Tehri Hydro	1000	99	103	89	0	0	89
Total	**15676**	**1619**	**3020**	**2665**	**0**	**0**	**2665**
Allocation from ER and Tala HEP							
Farakka	1600	0	22	19	0	0	19
Kahalgaon	840	0	51	43	0	0	43
Talchar	1000	0	0	0	0	0	0
Tala HEP	1020	153	30	25	0	0	25
Mejia TPS Unit-6	250	0	29	25	0	0	25
Kahalgaon-II	1500	0	157	131	0	0	131
Total ER	**6210**	**153**	**290**	**242**	**0**	**0**	**242**
Grand Total	**21886**	**1772**	**3309**	**2907**	**0**	**0**	**2907**

ii) Time Block 10.00HRS. - 18.00hrs. @ 8% Un-allocated quota of Central Sector Generating Stations (without RAPP Unit-3 & 4)

All figures in MW

Name of the Stn	Installed capacity	Total Un-allocated	Basic Allocation	Basic Allocation at periphery	Allocation out of Unallocated Quota	Allocation out of Un-allocation Quota at Delhi periphery	Total allocation at Delhi periphery
1	2	3	4	5	6	7	(8)=(5)+(7)
NTPC STATIONS							
Singrauli STPS	2000	300	150	130	19	17	147
Rihand	1000	150	100	87	10	8	95
Rihand Stage –II	1000	150	126	109	10	8	118
ANTA GPS	419	63	44	41	4	4	45
Auriya GPS	663.36	99	72	67	4	4	71
Dadri GPS	829.78	129	91	85	4	3	88
Dadri NCTPS (Th)	840	0	756	657	0	0	657
Dadri NCTPS (Th) Stage-II	980	0	882	766	0	0	766
Unchahaar-I TPS	420	20	24	21	1	1	22
Unchahaar-II TPS	420	63	47	41	4	4	44
Unchahaar-III TPS	210	31	29	25	2	2	27
TOTAL	**8782**	**1005**	**2321**	**2029**	**58**	**51**	**2080**
NHPC							
Baira Suil HPS	180	0	20	19	0	0	19
Salal HPS	690	0	80	76	0	0	76
Tanakpur HEP	94	0	12	11	0	0	11
Chamera HEP	540	0	43	41	0	0	41
Chamera-II HEP	300	54	40	38	3	3	41
URI HEP	480	0	53	50	0	0	50
Sewa HEP	120	18	16	15	1	1	16
Dhauli Ganga HEP	280	42	37	35	3	3	38
Dulhasti HEP	390	58	50	48	4	4	51
TOTAL	**3074**	**172**	**351**	**333**	**11**	**10**	**344**
NPC							
Narora APS	440	64	47	41	4	4	44
RAPP(B) Unit-3 APS	220	33	0	0	0	0	0
RAPP(B) Unit-4 APS	220	33	0	0	0	0	0
RAPP (C)	440	64	56	49	4	4	52
TOTAL	**1320**	**194**	**103**	**89**	**8**	**7**	**96**
SVJNL							
Nathpa Jhakri HEP	1500	149	142	123	9	9	132
THDC							
Tehri Hydro	1000	99	103	89	6	6	95
Total	**15676**	**1619**	**3020**	**2665**	**93**	**83**	**2748**
Allocation from ER and Tala HEP							
Farakka	1600	0	22	19	0	0	19
Kahalgaon	840	0	51	43	0	0	43
Talchar	1000	0	0	0	0	0	0
Tala HEP	1020	153	30	25	0	0	25
Mejia TPS Unit-6	250	0	29	25	0	0	25
Kahalgaon-II	1500	0	157	131	0	0	131
Total ER	**6210**	**153**	**290**	**242**	**0**	**0**	**242**
Grand Total	**21886**	**1772**	**3309**	**2907**	**93**	**83**	**2990**

iii) Time Block 18.00hrs. to 23.00hrs. @ 8% Un-allocated quota of Central Sector Generating Stations (with RAPP Unit-3 & 4)

All figures in MW

Name of the Stn	Installed capacity	Total Un-allocated	Basic Allocation	Basic Allocation at periphery	Allocation out of Unallocated Quota	Allocation out of Un-allocation Quota at Delhi periphery	Total allocation at Delhi periphery
1	2	3	4	5	6	7	(8)=(5)+(7)
Singrauli STPS	2000	300	150	130	19	17	147
Rihand	1000	150	100	87	10	8	95
Rihand Stage –II	1000	150	126	109	10	8	118
ANTA GPS	419	63	44	41	4	4	45
Auriya GPS	663.36	99	72	67	4	4	71
Dadri GPS	829.78	129	91	85	4	3	88
Dadri NCTPS (Th)	840	0	756	657	0	0	657
Dadri NCTPS (Th) Stage-II	980	0	882	766	0	0	766
Unchahaar-I TPS	420	20	24	21	1	1	22
Unchahaar-II TPS	420	63	47	41	4	4	44
Unchahaar-III TPS	210	31	29	25	2	2	27
TOTAL	**8782**	**1005**	**2321**	**2029**	**58**	**51**	**2080**
NHPC							
Baira Suil HPS	180	0	20	19	0	0	19
Salal HPS	690	0	80	76	0	0	76
Tanakpur HEP	94	0	12	11	0	0	11
Chamera HEP	540	0	43	41	0	0	41
Chamera-II HEP	300	54	40	38	3	3	41
URI HEP	480	0	53	50	0	0	50
Sewa HEP	120	18	16	15	1	1	16
Dhauli Ganga HEP	280	42	37	35	3	3	38
Dulhasti HEP	390	58	50	48	4	4	51
TOTAL	**3074**	**172**	**351**	**333**	**11**	**10**	**344**
NPC							
Narora APS	440	64	47	41	4	4	44
RAPP(B) Unit-3 APS	220	33	0	0	7	6	6
RAPP(B) Unit-4 APS	220	33	0	0	7	6	6
RAPP (C)	440	64	56	49	4	4	52
TOTAL	**1320**	**194**	**103**	**89**	**22**	**19**	**109**
SVJNL							
Nathpa Jhakri HEP	1500	149	142	123	9	9	132
THDC							
Tehri Hydro	1000	99	103	89	6	6	95
Total	**15676**	**1619**	**3020**	**2665**	**107**	**96**	**2760**
Allocation from ER and Tala HEP							
Farakka	1600	0	22	19	0	0	19
Kahalgaon	840	0	51	43	0	0	43
Talchar	1000	0	0	0	0	0	0
Tala HEP	1020	153	30	25	0	0	25
Mejia TPS Unit-6	250	0	29	25	0	0	25
Kahalgaon-II	1500	0	157	131	0	0	131
Total ER	**6210**	**153**	**290**	**242**	**0**	**0**	**242**
Grand Total	**21886**	**1772**	**3309**	**2907**	**107**	**96**	**3002**

H) Allocation from Unallocated quota of Central Sector Generating Stations to Delhi w.e.f.01.03.2011 to 05.03.2011

i) TIME BLOCK - 00.00-10.00hrs. and 23.00hrs. - 24.00hrs @ 0%

All figures in MW

Name of the Stn	Installed capacity	Total Un-allocated	Basic Allocation	Basic Allocation at periphery	Allocation out of Unallocated Quota	Allocation out of Un-allocation Quota at Delhi periphery	Total allocation at Delhi periphery
1	2	3	4	5	6	7	(8)=(5)+(7)
NTPC STATIONS							
Singrauli STPS	2000	300	150	130	0	0	130
Rihand	1000	150	100	87	0	0	87
Rihand Stage –II	1000	150	126	109	0	0	109
ANTA GPS	419	63	44	41	0	0	41
Auriya GPS	663.36	99	72	67	0	0	67
Dadri GPS	829.78	129	91	85	0	0	85
Dadri NCTPS (Th)	840	0	756	657	0	0	657
Dadri NCTPS (Th) Stage-II	980	0	882	766	0	0	766
Unchahaar-I TPS	420	20	24	21	0	0	21
Unchahaar-II TPS	420	63	47	41	0	0	41
Unchahaar-III TPS	210	31	29	25	0	0	25
TOTAL	**8782**	**1005**	**2321**	**2029**	**0**	**0**	**2029**
NHPC							
Baira Suil HPS	180	0	20	19	0	0	19
Salal HPS	690	0	80	76	0	0	76
Tanakpur HEP	94	0	12	11	0	0	11
Chamera HEP	540	0	43	41	0	0	41
Chamera-II HEP	300	54	40	38	0	0	38
URI HEP	480	0	53	50	0	0	50
Sewa HEP	120	18	16	15	0	0	15
Dhauli Ganga HEP	280	42	37	35	0	0	35
Dulhasti HEP	390	58	50	48	0	0	48
TOTAL	**3074**	**172**	**351**	**333**	**0**	**0**	**333**
NPC							
Narora APS	440	64	47	41	0	0	41
RAPP(B)	440	66	0	0	0	0	0
RAPP (C)	440	64	56	49	0	0	49
TOTAL	**1320**	**194**	**103**	**89**	**0**	**0**	**89**
SVJNL							
Nathpa Jhakri HEP	1500	149	142	123	0	0	123
THDC							
Tehri Hydro	1000	99	103	89	0	0	89
Total	**15676**	**1619**	**3020**	**2665**	**0**	**0**	**2665**
Allocation from ER and Tala HEP							
Farakka	1600	0	22	19	0	0	19
Kahalgaon	840	0	51	43	0	0	43
Talchar	1000	0	0	0	0	0	0
Tala HEP	1020	153	30	25	0	0	25
Mejia TPS Unit-6	250	0	29	25	0	0	25
Kahalgaon-II	1500	0	157	131	0	0	131
Total ER	**6210**	**153**	**290**	**242**	**0**	**0**	**242**
Grand Total	**21886**	**1772**	**3309**	**2907**	**0**	**0**	**2907**

ii) Time Block 10.00HRS. - 18.00hrs. @ 8% Un-allocated quota of Central Sector Generating Stations (without RAPP Unit-3 & 4)

All figures in MW

Name of the Stn	Installed capacity	Total Un-allocated	Basic Allocation	Basic Allocation at periphery	Allocation out of Unallocated Quota	Allocation out of Un-allocation Quota at Delhi periphery	Total allocation at Delhi periphery
1	2	3	4	5	6	7	(8)=(5)+(7)
NTPC STATIONS							
Singrauli STPS	2000	300	150	130	19	17	147
Rihand	1000	150	100	87	10	8	95
Rihand Stage –II	1000	150	126	109	10	8	118
ANTA GPS	419	63	44	41	4	4	45
Auriya GPS	663.36	99	72	67	4	4	71
Dadri GPS	829.78	129	91	85	4	3	88
Dadri NCTPS (Th)	840	0	756	657	0	0	657
Dadri NCTPS (Th) Stage-II	980	0	882	766	0	0	766
Unchahaar-I TPS	420	20	24	21	1	1	22
Unchahaar-II TPS	420	63	47	41	4	4	44
Unchahaar-III TPS	210	31	29	25	2	2	27
TOTAL	**8782**	**1005**	**2321**	**2029**	**58**	**51**	**2080**
NHPC							
Baira Suil HPS	180	0	20	19	0	0	19
Salal HPS	690	0	80	76	0	0	76
Tanakpur HEP	94	0	12	11	0	0	11
Chamera HEP	540	0	43	41	0	0	41
Chamera-II HEP	300	54	40	38	3	3	41
URI HEP	480	0	53	50	0	0	50
Sewa HEP	120	18	16	15	1	1	16
Dhauli Ganga HEP	280	42	37	35	3	3	38
Dulhasti HEP	390	58	50	48	4	4	51
TOTAL	**3074**	**172**	**351**	**333**	**11**	**10**	**344**
NPC							
Narora APS	440	64	47	41	4	4	44
RAPP(B) Unit-3 APS	220	33	0	0	0	0	0
RAPP(B) Unit-4 APS	220	33	0	0	0	0	0
RAPP (C)	440	64	56	49	4	4	52
TOTAL	**1320**	**194**	**103**	**89**	**8**	**7**	**96**
SVJNL							
Nathpa Jhakri HEP	1500	149	142	123	9	9	132
THDC							
Tehri Hydro	1000	99	103	89	6	6	95
Total	**15676**	**1619**	**3020**	**2665**	**93**	**83**	**2748**
Allocation from ER and Tala HEP							
Farakka	1600	0	22	19	0	0	19
Kahalgaon	840	0	51	43	0	0	43
Talchar	1000	0	0	0	0	0	0
Tala HEP	1020	153	30	25	0	0	25
Mejia TPS Unit-6	250	0	29	25	0	0	25
Kahalgaon-II	1500	0	157	131	0	0	131
Total ER	**6210**	**153**	**290**	**242**	**0**	**0**	**242**
Grand Total	**21886**	**1772**	**3309**	**2907**	**93**	**83**	**2990**

iii) Time Block 18.00hrs. to 23.00hrs. @ 8% Un-allocated quota of Central Sector Generating Stations (with RAPP Unit-3 & 4)

All figures in MW

Name of the Stn	Installed capacity	Total Un-allocated	Basic Allocation	Basic Allocation at periphery	Allocation out of Unallocated Quota	Allocation out of Un-allocation Quota at Delhi periphery	Total allocation at Delhi periphery
1	2	3	4	5	6	7	(8)=(5)+(7)
Singrauli STPS	2000	300	150	130	19	17	147
Rihand	1000	150	100	87	10	8	95
Rihand Stage –II	1000	150	126	109	10	8	118
ANTA GPS	419	63	44	41	4	4	45
Auriya GPS	663.36	99	72	67	4	4	71
Dadri GPS	829.78	129	91	85	4	3	88
Dadri NCTPS (Th)	840	0	756	657	0	0	657
Dadri NCTPS (Th) Stage-II	980	0	882	766	0	0	766
Unchahaar-I TPS	420	20	24	21	1	1	22
Unchahaar-II TPS	420	63	47	41	4	4	44
Unchahaar-III TPS	210	31	29	25	2	2	27
TOTAL	**8782**	**1005**	**2321**	**2029**	**58**	**51**	**2080**
NHPC							
Baira Suil HPS	180	0	20	19	0	0	19
Salal HPS	690	0	80	76	0	0	76
Tanakpur HEP	94	0	12	11	0	0	11
Chamera HEP	540	0	43	41	0	0	41
Chamera-II HEP	300	54	40	38	3	3	41
URI HEP	480	0	53	50	0	0	50
Sewa HEP	120	18	16	15	1	1	16
Dhauli Ganga HEP	280	42	37	35	3	3	38
Dulhasti HEP	390	58	50	48	4	4	51
TOTAL	**3074**	**172**	**351**	**333**	**11**	**10**	**344**
NPC							
Narora APS	440	64	47	41	4	4	44
RAPP(B) Unit-3 APS	220	33	0	0	7	6	6
RAPP(B) Unit-4 APS	220	33	0	0	7	6	6
RAPP (C)	440	64	56	49	4	4	52
TOTAL	**1320**	**194**	**103**	**89**	**22**	**19**	**109**
SVJNL							
Nathpa Jhakri HEP	1500	149	142	123	9	9	132
THDC							
Tehri Hydro	1000	99	103	89	6	6	95
Total	**15676**	**1619**	**3020**	**2665**	**107**	**96**	**2760**
Allocation from ER and Tala HEP							
Farakka	1600	0	22	19	0	0	19
Kahalgaon	840	0	51	43	0	0	43
Talchar	1000	0	0	0	0	0	0
Tala HEP	1020	153	30	25	0	0	25
Mejia TPS Unit-6	250	0	29	25	0	0	25
Kahalgaon-II	1500	0	157	131	0	0	131
Total ER	**6210**	**153**	**290**	**242**	**0**	**0**	**242**
Grand Total	**21886**	**1772**	**3309**	**2907**	**107**	**96**	**3002**

I) Allocation from Unallocated quota of Central Sector Generating Stations to Delhi w.e.f.05.03.2011 to 08.03.2011

TIME BLOCK 00.00 - 1800hrs. and 23.00hrs. - 24.00hrs. @ 0% FROM UN-ALLOCATED

Name of the Stn	Installed capacity	Total Un-allocated	Basic Allocation	Basic Allocation at periphery	Allocation out of Unallocated Quota	Allocation out of Un-allocation Quota at Delhi periphery	Total allocation at Delhi periphery
1	2	3	4	5	6	7	(8)=(5)+(7)
Singrauli STPS	2000	300	150	130	0	0	130
Rihand	1000	150	100	87	0	0	87
Rihand Stage -II	1000	150	126	109	0	0	109
ANTA GPS	419	63	44	41	0	0	41
Auriya GPS	663.36	99	72	67	0	0	67
Dadri GPS	829.78	129	91	85	0	0	85
Dadri NCTPS (Th)	840	0	756	657	0	0	657
Dadri NCTPS (Th) Stage-II	980	0	882	766	0	0	766
Unchahaar-I TPS	420	20	24	21	0	0	21
Unchahaar-II TPS	420	63	47	41	0	0	41
Unchahaar-III TPS	210	31	29	25	0	0	25
TOTAL	**8782**	**1005**	**2321**	**2029**	**0**	**0**	**2029**
NHPC							
Baira Suil HPS	180	0	20	19	0	0	19
Salal HPS	690	0	80	76	0	0	76
Tanakpur HEP	94	0	12	11	0	0	11
Chamera HEP	540	0	43	41	0	0	41
Chamera-II HEP	300	54	40	38	0	0	38
URI HEP	480	0	53	50	0	0	50
Sewa HEP	120	18	16	15	0	0	15
Dhauli Ganga HEP	280	42	37	35	0	0	35
Dulhasti HEP	390	58	50	48	0	0	48
TOTAL	**3074**	**172**	**351**	**333**	**0**	**0**	**333**
NPC							
Narora APS	440	64	47	41	0	0	41
RAPP(B)	440	66	0	0	0	0	0
RAPP (C)	440	64	56	49	0	0	49
TOTAL	**1320**	**194**	**103**	**89**	**0**	**0**	**89**
Nathpa Jhakri HEP (SJVNL)	1500	149	142	123	0	0	123
Tehri Hydro (THDC)	1000	99	103	89	0	0	89
Total	**15676**	**1619**	**3020**	**2665**	**0**	**0**	**2665**
Allocation from ER and Tala HEP							
Farakka	1600	0	22	19	0	0	19
Kahalgaon	840	0	51	43	0	0	43
Talchar	1000	0	0	0	0	0	0
Tala HEP	1020	153	30	25	0	0	25
Mejia TPS Unit-6	250	0	29	25	0	0	25
Kahalgaon-II	1500	0	157	131	0	0	131
Total ER	**6210**	**153**	**290**	**242**	**0**	**0**	**242**
Joint Venture							
Jhajjar TPS	500	38	231	201	0	0	201
Grand Total	**22386**	**1810**	**3540**	**3107**	**0**	**0**	**3107**

ii) ***TIME BLOCK 18.00HRS - 23.00hrs @ 0% FROM UNALLOCATED QUOTA AND 3.18% FROM RAPP `B'***

Name of the Stn	Installed capacity	Total Un-allocated	Basic Allocation	Basic Allocation at periphery	Allocation out of Unallocated Quota	Allocation out of Un-allocation Quota at Delhi periphery	Total allocation at Delhi periphery
1	2	3	4	5	6	7	(8)=(5)+(7)
NTPC STATIONS							
Singrauli STPS	2000	300	150	130	0	0	130
Rihand	1000	150	100	87	0	0	87
Rihand Stage -II	1000	150	126	109	0	0	109
ANTA GPS	419	63	44	41	0	0	41
Auriya GPS	663.36	99	72	67	0	0	67
Dadri GPS	829.78	129	91	85	0	0	85
Dadri NCTPS (Th)	840	0	756	657	0	0	657
Dadri NCTPS (Th) Stage-II	980	0	882	766	0	0	766
Unchahaar-I TPS	420	20	24	21	0	0	21
Unchahaar-II TPS	420	63	47	41	0	0	41
Unchahaar-III TPS	210	31	29	25	0	0	25
TOTAL	**8782**	**1005**	**2321**	**2029**	**0**	**0**	**2029**
NHPC							
Baira Suil HPS	180	0	20	19	0	0	19
Salal HPS	690	0	80	76	0	0	76
Tanakpur HEP	94	0	12	11	0	0	11
Chamera HEP	540	0	43	41	0	0	41
Chamera-II HEP	300	54	40	38	0	0	38
URI HEP	480	0	53	50	0	0	50
Sewa HEP	120	18	16	15	0	0	15
Dhauli Ganga HEP	280	42	37	35	0	0	35
Dulhasti HEP	390	58	50	48	0	0	48
TOTAL	**3074**	**172**	**351**	**333**	**0**	**0**	**333**
NPC							
Narora APS	440	64	47	41	0	0	41
RAPP(B) Unit-3 APS	220	33	0	0	7	6	6
RAPP(B) Unit-4 APS	220	33	0	0	7	6	6
RAPP (C)	440	64	56	49	0	0	49
TOTAL	**1320**	**194**	**103**	**89**	**14**	**12**	**101**
SVJNL							
Nathpa Jhakri HEP	1500	149	142	123	0	0	123
THDC							
Tehri Hydro	1000	99	103	89	0	0	89
Total	**15676**	**1619**	**3020**	**2665**	**14**	**12**	**2677**
Allocation from ER and Tala HEP							
Farakka	1600	0	22	19	0	0	19
Kahalgaon	840	0	51	43	0	0	43
Talchar	1000	0	0	0	0	0	0
Tala HEP	1020	153	30	25	0	0	25
Mejia TPS Unit-6	250	0	29	25	0	0	25
Kahalgaon-II	1500	0	157	131	0	0	131
Total ER	**6210**	**153**	**290**	**242**	**0**	**0**	**242**
Joint Venture							
Jhajjar TPS	500	38	231	201	0	0	201
Grand Total	**22386**	**1810**	**3540**	**3107**	**14**	**12**	**3120**

J) Allocation from Unallocated quota of Central Sector Generating Stations to Delhi w.e.f.08.03.2011 to 22.03.2011

(i) TIME BLOCK 00.00HRS.- 24.00HRS. @ 0% FROM UN-ALLOCATED

Name of the Stn	Installed capacity	Total Un-allocated	Basic Allocation	Basic Allocation at periphery	Allocation out of Unallocated Quota	Allocation out of Un-allocation Quota at Delhi periphery	Total allocation at Delhi periphery
1	2	3	4	5	6	7	(8)=(5)+(7)
NTPC STATIONS							
Singrauli STPS	2000	300	150	130	0	0	130
Rihand	1000	150	100	87	0	0	87
Rihand Stage -II	1000	150	126	109	0	0	109
ANTA GPS	419	63	44	41	0	0	41
Auriya GPS	663.36	99	72	67	0	0	67
Dadri GPS	829.78	129	91	85	0	0	85
Dadri NCTPS (Th)	840	0	756	657	0	0	657
Dadri NCTPS (Th) Stage-II	980	147	735	639	0	0	639
Unchahaar-I TPS	420	20	24	21	0	0	21
Unchahaar-II TPS	420	63	47	41	0	0	41
Unchahaar-III TPS	210	31	29	25	0	0	25
TOTAL	**8782**	**1152**	**2174**	**1902**	**0**	**0**	**1902**
NHPC							
Baira Suil HPS	180	0	20	19	0	0	19
Salal HPS	690	0	80	76	0	0	76
Tanakpur HEP	94	0	12	11	0	0	11
Chamera HEP	540	0	43	41	0	0	41
Chamera-II HEP	300	54	40	38	0	0	38
URI HEP	480	0	53	50	0	0	50
Sewa HEP	120	18	16	15	0	0	15
Dhauli Ganga HEP	280	42	37	35	0	0	35
Dulhasti HEP	390	58	50	48	0	0	48
TOTAL	**3074**	**172**	**351**	**333**	**0**	**0**	**333**
NPC							
Narora APS	440	64	47	41	0	0	41
RAPP(B)	440	66	0	0	0	0	0
RAPP (C)	440	64	56	49	0	0	49
TOTAL	**1320**	**194**	**103**	**89**	**0**	**0**	**89**
SVJNL							
Nathpa Jhakri HEP	1500	149	142	123	0	0	123
THDC							
Tehri Hydro	1000	99	103	89	0	0	89
Total	**15676**	**1766**	**2873**	**2537**	**0**	**0**	**2537**
Allocation from ER and Tala HEP							
Farakka	1600	0	22	19	0	0	19
Kahalgaon	840	0	51	43	0	0	43
Talchar	1000	0	0	0	0	0	0
Tala HEP	1020	153	30	25	0	0	25
Mejia TPS Unit-6	250	0	29	25	0	0	25
Kahalgaon-II	1500	0	157	131	0	0	131
Total ER	**6210**	**153**	**290**	**242**	**0**	**0**	**242**
Joint Venture							
Jhajjar TPS	500	38	231	201	0	0	201
Grand Total	**22386**	**1957**	**3393**	**2980**	**0**	**0**	**2980**

K) Allocation to Delhi w.e.f.22.03.2011 to 31.03.2011 @ 0% allocation from unallocated quota of Central Sector Generating Stations.

All figures in MW

Name of the Stn	Installed capacity	Total Un-allocated	Basic Allocation	Basic Allocation at periphery	Allocation out of Unallocated Quota	Allocation out of Un-allocation Quota at Delhi periphery	Total allocation at Delhi periphery
1	2	3	4	5	6	7	(8)=(5)+(7)
NTPC STATIONS							
Singrauli STPS	2000	300	150	130	0	0	130
Rihand	1000	150	100	87	0	0	87
Rihand Stage -II	1000	150	126	109	0	0	109
ANTA GPS	419	63	44	41	0	0	41
Auriya GPS	663.36	99	72	67	0	0	67
Dadri GPS	829.78	129	91	85	0	0	85
Dadri NCTPS (Th)	840	0	756	657	0	0	657
Dadri NCTPS (Th) Stage-II	980	0	882	766	0	0	766
Unchahaar-I TPS	420	20	24	21	0	0	21
Unchahaar-II TPS	420	63	47	41	0	0	41
Unchahaar-III TPS	210	31	29	25	0	0	25
TOTAL	**8782**	**1005**	**2321**	**2029**	**0**	**0**	**2029**
NHPC							
Baira Suil HPS	180	0	20	19	0	0	19
Salal HPS	690	0	80	76	0	0	76
Tanakpur HEP	94	0	12	11	0	0	11
Chamera HEP	540	0	43	41	0	0	41
Chamera-II HEP	300	54	40	38	0	0	38
URI HEP	480	0	53	50	0	0	50
Sewa HEP	120	18	16	15	0	0	15
Dhauli Ganga HEP	280	42	37	35	0	0	35
Dulhasti HEP	390	58	50	48	0	0	48
TOTAL	**3074**	**172**	**351**	**333**	**0**	**0**	**333**
NPC							
Narora APS	440	64	47	41	0	0	41
RAPP(B)	440	66	0	0	0	0	0
RAPP (C)	440	64	56	49	0	0	49
TOTAL	**1320**	**194**	**103**	**89**	**0**	**0**	**89**
Nathpa Jhakri HEP (SJVNL)	1500	149	142	123	0	0	123
Tehri Hydro (THDC)	1000	99	103	89	0	0	89
Total	**15676**	**1619**	**3020**	**2665**	**0**	**0**	**2665**
Allocation from ER and Tala HEP							
Farakka	1600	0	22	19	0	0	19
Kahalgaon	840	0	51	43	0	0	43
Talchar	1000	0	0	0	0	0	0
Tala HEP	1020	153	30	25	0	0	25
Mejia TPS Unit-6	250	0	29	25	0	0	25
Kahalgaon-II	1500	0	157	131	0	0	131
Total ER	**6210**	**153**	**290**	**242**	**0**	**0**	**242**
Joint Venture							
Jhajjar TPS	500	38	231	201	0	0	201
Grand Total	**22386**	**1810**	**3540**	**3107**	**0**	**0**	**3107**

13.2 ALLOCATION OF POWER TO DELHI DISCOMS FROM VARIOUS SOURCES

ALLOCATION OF POWER TO VARIOUS LISCENCEES AS PER ORDER OF DERC AND DECISION OF GNCTD FOR ALLOCATION OF CENTRAL SECTOR STATIONS (DADRI THERMAL & BTPS) AND STATE SECTOR GENERATING STATIONS w.e.f. 01.01.2010 TO 31.03.2010. ALLOCATION OF 0.9MW HAS BEEN ALLOCATED TO UPCOMING JHAJJHAR PLANT FROM IP STATION. ALLOCATION OF 1 MW POWER FOR AUXILIARY NEEDS OF IP STATION FROM RPH WAS MADE W.E.F. 01.11.2009.

(Allocation In %)

(A) 10.00hrs. to 17.00hrs.

SOURCES	LICENSEES					
	NDMC	MES	NDPL	BRPL	BYPL	TOTAL
1. Central Sector without Dadri (Th)	0.00	0.00	29.18	43.58	27.24	100.00
2. Dadri (Th)	14.98	0.00	24.18	36.87	23.97	100.00
3. BTPS	15.94	7.09	21.88	33.37	21.72	100.00
4. IP	0.00	0.00	0.00	0.00	0.00	100.00
5. RPH	0.86	0.00	28.35	43.04	27.75	100.00
6. GT	0.93	0.00	28.28	42.99	27.80	100.00
7. Pragati	26.69	0.00	20.77	31.76	20.78	100.00
8. DVC	0.00	0.00	29.18	43.58	27.24	100.00

(B) 00.00hrs. to 10.00hrs. and 17.00hrs. to 24.00hrs.

SOURCES	LICENSEES					
	NDMC	MES	NDPL	BRPL	BYPL	TOTAL
1. Central Sector without Dadri (Th)	0.00	0.00	29.18	43.58	27.24	100.00
2. Dadri (Th)	14.05	0.00	24.18	36.87	24.90	100.00
3. BTPS	15.07	7.09	21.88	33.37	22.59	100.00
4. IP	0.00	0.00	0.00	0.00	0.00	100.00
5. RPH	0.00	0.00	28.35	43.04	28.61	100.00
6. GT	0.00	0.00	28.28	42.99	29.73	100.00
7. Pragati	25.76	0.00	20.77	31.76	21.71	100.00
8. DVC	0.00	0.00	29.18	43.58	27.24	100.00

14 Inter Discom transfer of power

As per the order of Delhi Electricity Regulatory Commission (DERC) dated 14.08.2007, surplus power by virtue of allocation of the licensees should be distributed to the needy distribution licensees to the ratio of the allocation of the sources to the extent of requirement. SLDC started such scheduling from 19.08.2007. Upto 19.02.2008, the scheduling was done on the basis of requirement and availability assessed by the licensees involved. From 20.02.2008 for better management of inter discom surplus, the same has been done on actual basis. As per the order of commission dated 14.08.2007, *for the settlement rate, Commission orders that the fixed cost of Badarpur Power Station, the variable charge for BTPS and a mark up of 10 paise over and above the two charges towards income tax and any other item which is unforeseen at this stage shall be added. As per the current indications, the fixed charge for BTPS is Rs. 0. 53 per kwhr and the variable charge is Rs. 2.11 per Kwhr as of 30-6-07. Adding 10 paise per kwhr for all other adjustments, the single settlement rate between the Discom for such transaction is fixed at Rs. 2.75 per kwhr. Any fuel price adjustment to Rs. 2.11 per kwhr beyond 30.06.07 shall be added at actuals to the prescribed rate of 2.75 kwhr.*

As per the above order, the inter discom transfer rates for 2010-11 has been as under :-

All figures in Ps/Unit

Month	Basic Price for Interdiscom Transfer of surplus power in Ps/Unit	Variation in Variable Charges in Ps/Unit	Total Rate for Inter Discom Transfer of power in Ps/unit
Apr-10	275.00	109.27	384.27
May-10	275.00	142.95	417.95
Jun-10	275.00	100.40	375.4
Jul-10	275.00	116.09	391.09
Aug-10	275.00	143.11	418.11
Sep-10	275.00	126.79	401.79
Oct-10	275.00	64.47	339.47
Nov-10	275.00	83.24	358.24
Dec-10	275.00	87.98	362.98
Jan-11	275.00	109.47	384.47
Feb-11	275.00	117.22	392.22
Mar-11	275.00	113.61	388.61

14.1 The details of inter discom surplus sale of power for the year

14.1.1 Military Engineering Services (MES)

All figures in MUs

From→	MES									
To→	BRPL		BYPL		NDPL		NDMC		TOTAL	
Month	On Day Ahead basis	Final for Payment Purpose	On Day Ahead basis	Final for Payment Purpose	On Day Ahead basis	Final for Payment Purpose	On Day Ahead basis	Final for Payment Purpose	On Day Ahead basis	Final for Payment Purpose
Apr-10	2.620923	2.966289	1.546088	1.099538	2.138525	2.280558	0.051115	0.053337	6.356651	6.399722
May-10	0.849307	1.944153	0.640178	0.662580	0.675375	1.401258	0.019000	0.021197	2.183859	4.029188
Jun-10	1.438711	2.837934	0.962605	0.802067	0.976266	2.057260	0.017962	0.045890	3.395544	5.743150
Jul-10	5.913924	0.944717	1.602095	0.259542	0.151058	0.698824	0.151058	0.007082	7.818135	1.910165
Aug-10	5.090828	0.840133	1.432256	0.199949	0.131737	0.836184	0.131737	0.023305	6.786558	1.899571
Sep-10	1.277346	0.393499	0.939176	0.017419	0.019696	0.446278	0.019696	0.020642	2.255914	0.877838
Oct-10	0.325348	0.000000	0.149748	0.000000	0.030306	0.010227	0.030306	0.001908	0.535708	0.012135
Nov-10	0.106489	0.000213	0.008886	0.000000	0.000000	0.018142	0.000000	0.000000	0.115375	0.018355
Dec-10	0.197459	0.189680	0.007907	0.000327	0.000000	0.299384	0.000000	0.000000	0.205366	0.489390
Jan-11	0.113412	0.015942	0.085850	0.000306	0.000000	0.021507	0.000000	0.000000	0.199262	0.037756
Feb-11	0.001025	0.000000	0.027916	0.000000	0.000000	0.000000	0.000000	0.000000	0.028941	0.000000
Mar-11	0.018021	0.000000	0.028194	0.000000	0.005647	0.000000	0.005647	0.002534	0.057509	0.002534
Total	**17.952793**	**10.132560**	**7.430899**	**3.041728**	**4.128609**	**8.069622**	**0.426521**	**0.175893**	**29.938822**	**21.419803**

14.1.2 New Delhi Municipal Council (NDMC)

All figures in MUs

From→	NDMC									
To→	BRPL		BYPL		NDPL		MES		TOTAL	
Month	On Day Ahead basis	Final for Payment Purpose	On Day Ahead basis	Final for Payment Purpose	On Day Ahead basis	Final for Payment Purpose	On Day Ahead basis	Final for Payment Purpose	On Day Ahead basis	Final for Payment Purpose
Apr-10	10.86896	12.42508	6.39754	3.84595	9.08986	9.51192	0.01977	0.00305	26.37613	25.78600
May-10	8.37270	15.46271	6.32233	4.87823	6.89045	10.87590	0.09985	0.04806	21.68533	31.26489
Jun-10	9.10953	15.56042	6.23168	3.51983	6.69695	10.69868	0.05031	0.00000	22.08847	29.77893
Jul-10	20.48003	13.32662	4.12245	3.96958	0.00000	9.51585	0.00000	0.03634	24.60247	26.84840
Aug-10	18.07611	8.74343	4.30699	2.26698	0.00000	7.26737	0.00000	0.01067	22.38310	18.28844
Sep-10	5.20762	1.00211	4.02032	0.01227	0.00000	1.14441	0.00296	0.00026	9.23089	2.15905
Oct-10	1.03340	0.02138	0.38118	0.00772	0.00000	0.07797	0.08577	0.00203	1.50034	0.10910
Nov-10	0.89349	0.00126	0.10144	0.00000	0.00000	0.10782	0.03192	0.00000	1.02685	0.10908
Dec-10	5.81164	3.70724	0.56244	0.14373	0.00000	3.94742	0.36538	0.08731	6.73946	7.88570
Jan-11	3.10992	1.14352	2.05792	0.04919	0.00000	0.73890	0.18716	0.11362	5.35500	2.04523
Feb-11	0.01344	0.00000	0.28973	0.00000	0.00000	0.00004	0.04408	0.02750	0.34725	0.02754
Mar-11	0.09624	0.00000	0.15290	0.00000	0.00000	0.00000	0.01537	0.00007	0.26451	0.00007
Total	83.07308	71.39377	34.94690	18.69348	22.67726	53.88628	0.90255	0.32891	141.59978	144.30244

14.1.3 BSES Rajdhani Power Ltd. (BRPL)

All figures in MUs

From→	BRPL									
To→	BYPL		NDPL		NDMC		MES		TOTAL	
Month	On Day Ahead basis	Final for Payment Purpose	On Day Ahead basis	Final for Payment Purpose	On Day Ahead basis	Final for Payment Purpose	On Day Ahead basis	Final for Payment Purpose	On Day Ahead basis	Final for Payment Purpose
Apr-10	0.02639	0.01083	0.73623	0.95238	0.00280	0.00052	0.00000	0.00000	0.76542	0.96373
May-10	2.45375	0.00271	3.79084	0.51539	0.04252	0.01322	0.07804	0.00259	6.36515	0.53391
Jun-10	1.08264	0.01935	3.16949	0.90599	0.24891	0.04663	0.11472	0.00000	4.61576	0.97197
Jul-10	0.07405	0.00721	0.00324	0.49693	0.00324	0.04183	0.00000	0.00297	0.08053	0.54893
Aug-10	0.09596	0.00047	0.09116	1.71618	0.09116	0.21745	0.00000	0.00522	0.27829	1.93932
Sep-10	0.58331	0.00000	0.02953	0.62148	0.02953	0.04581	0.00000	0.00173	0.64237	0.66902
Oct-10	0.40054	0.00000	0.72324	0.12184	0.72324	0.06432	0.61641	0.01217	2.46343	0.19832
Nov-10	0.00480	0.00000	0.00353	0.43401	0.00353	0.00000	0.12450	0.00000	0.13636	0.43401
Dec-10	0.00697	0.00000	0.00000	2.29162	0.00000	0.00000	0.38143	0.05508	0.38840	2.34671
Jan-11	1.45878	0.00000	0.00001	0.30634	0.00001	0.01859	0.32103	0.25905	1.77983	0.58398
Feb-11	1.25410	0.00000	0.00324	0.00019	0.00324	0.00000	0.20000	0.13394	1.46058	0.13413
Mar-11	1.24386	0.00000	0.33919	0.00000	0.33919	0.07334	0.10178	0.00033	2.02403	0.07368
Total	8.68514	0.04057	8.88971	8.36235	1.48738	0.52170	1.93791	0.47308	21.00013	9.39770

14.1.4 BSES Yamuna Power Ltd. (BYPL)

All figures in MUs

From→	BYPL									
To→	BRPL		NDPL		NDMC		MES		TOTAL	
Month	On Day Ahead basis	Final for Payment Purpose	On Day Ahead basis	Final for Payment Purpose	On Day Ahead basis	Final for Payment Purpose	On Day Ahead basis	Final for Payment Purpose	On Day Ahead basis	Final for Payment Purpose
Apr-10	1.17121	3.99311	2.07159	4.31480	0.02211	0.03742	0.00000	0.00013	3.26492	8.34545
May-10	0.24570	4.98813	0.84225	3.76765	0.00576	0.05792	0.02104	0.01605	1.11475	8.82975
Jun-10	0.29214	5.47836	0.98492	4.23827	0.07463	0.09276	0.02714	0.00037	1.37883	9.80976
Jul-10	8.97856	6.54800	0.15643	4.89242	0.15643	0.16927	0.00000	0.06262	9.29142	11.67230
Aug-10	7.96052	3.85068	0.13368	5.23511	0.13368	0.32418	0.00000	0.02094	8.22788	9.43091
Sep-10	0.27413	1.08251	0.01720	2.24114	0.01720	0.11485	0.00000	0.00224	0.30852	3.44074
Oct-10	1.52615	0.00369	0.55025	0.21401	0.55025	0.04519	0.42262	0.00876	3.04928	0.27164
Nov-10	1.09404	0.00433	0.00248	0.36890	0.00248	0.00000	0.10422	0.00000	1.20321	0.37323
Dec-10	3.36437	3.02250	0.00000	4.98324	0.00000	0.00000	0.47548	0.13307	3.83985	8.13881
Jan-11	2.12706	1.45124	0.01294	1.07753	0.01294	0.03171	0.29655	0.34986	2.44950	2.91035
Feb-11	0.01701	0.00000	0.00064	0.00014	0.00064	0.00000	0.07024	0.09410	0.08853	0.09423
Mar-11	0.02377	0.00000	0.09692	0.00000	0.09692	0.05153	0.04214	0.00023	0.25974	0.05176
Total	27.07465	30.42255	4.86930	31.33320	1.07304	0.92482	1.45943	0.68837	34.47642	63.36894

14.1.5 North Delhi Power Ltd. (NDPL)

All figures in MUs

From→	NDPL									
To→	BRPL		BYPL		NDMC		MES		TOTAL	
Month	On Day Ahead basis	Final for Payment Purpose	On Day Ahead basis	Final for Payment Purpose	On Day Ahead basis	Final for Payment Purpose	On Day Ahead basis	Final for Payment Purpose	On Day Ahead basis	Final for Payment Purpose
Apr-10	0.00000	0.01578	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.01578
May-10	1.37878	0.23051	1.20327	0.09415	0.07805	0.00017	0.03796	0.00089	2.69806	0.32572
Jun-10	0.15458	0.09328	0.10236	0.00187	0.01588	0.00005	0.00104	0.00000	0.27385	0.09520
Jul-10	1.12392	0.22522	0.00158	0.00225	0.00483	0.00951	0.00000	0.00168	1.13032	0.23866
Aug-10	3.43385	0.08883	0.14259	0.00000	0.01174	0.04064	0.00000	0.00238	3.58819	0.13185
Sep-10	0.14532	0.00349	0.20601	0.00000	0.02734	0.00621	0.00000	0.00122	0.37866	0.01092
Oct-10	0.64298	0.00000	0.41560	0.00000	0.48610	0.04157	0.36953	0.00839	1.91421	0.04996
Nov-10	0.39065	0.00000	0.05300	0.00000	0.00248	0.00000	0.08175	0.00000	0.52789	0.00000
Dec-10	0.69248	0.14184	0.01036	0.00000	0.00000	0.00000	0.13446	0.03943	0.83729	0.18127
Jan-11	0.42680	0.24765	0.52012	0.00133	0.00001	0.00871	0.20886	0.20674	1.15579	0.46443
Feb-11	0.04304	0.00000	1.11902	0.00000	0.00318	0.00000	0.17106	0.09239	1.33631	0.09239
Mar-11	0.00814	0.00000	0.86586	0.00000	0.23670	0.05159	0.07148	0.00023	1.18218	0.05183
Total	8.44054	1.04660	4.63977	0.09960	0.86631	0.15845	1.07614	0.35335	15.02275	1.65801

14.2 The details of inter discom surplus sale of power after ex-bilateral for the year 2010-11

All figures in MUs

Month	BRPL		BYPL		NDPL		NDMC	
	IDT Ex Bilateral purchase	IDT Ex Bilateral sale	IDT Ex Bilateral purchase	IDT Ex Bilateral sale	IDT Ex Bilateral purchase	IDT Ex Bilateral sale	IDT Ex Bilateral purchase	IDT Ex Bilateral sale
APRIL'10	0.77758	-1.48000	0.20702	-1.65915	1.65000	-0.24007	0.81459	-0.07074
MAY'10	2.13990	-1.40000	0.04228	-2.00175	1.23000	-0.66915	0.76620	-0.11000
JUNE'10	0.08215	-0.25000	0.00000	-0.11675	0.20000	0.00000	0.09000	-0.01404
JULY'10	0.26000	0.00000	0.00025	-0.44000	0.00000	0.00000	0.18000	0.00000
AUG'10	0.00000	-5.45086	1.11813	-0.79783	5.32949	0.00000	0.00392	-0.20285
SEP'10	0.00000	-0.39000	0.00000	-0.10000	0.36143	-0.09000	0.21572	0.00000
OCT'10	0.00002	-0.04403	0.00000	-0.02599	0.07000	0.00000	0.00000	0.00000
NOV'10	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
DEC'10	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
JAN'11	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
FEB'11	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
MAR'11	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
TOTAL	3.25966	-9.01489	1.36767	-5.14147	8.84091	-0.99922	2.07044	-0.39762

15 IMPLEMENTATION OF INTRASTATE ABT IN DELHI

In the second phase of power reforms undertaken in Delhi, the power purchase agreements entered into by DESU/DVB/DTL have been reassigned to distribution licensees as per DERC order dated 31.03.2007. Intrastate ABT has also bee introduced in Delhi from 01.04.2007. SLDC has started issuing UI bills from covering the period from 01.04.2007 on weekly basis. The Intrastate UI Pool Account is also operated by SLDC as per the DERC order. The details of Main meters used for ABT billing are as under :

15.1 For Intrastate (Meters provided by DTL) -As on 31/3/2011

S.no.	Main Metering Points				No. of meters as per beneficiary / utility	Check metering points			No. of meters as per beneficiary / utility	Number of meters
	Discom	220/66/33KV	11/6.6KV	TOTAL	(+)	220/66/33KV	11/6.6KV	TOTAL	(+)	Total
1)	NDPL	53	37	90	70	42	0	42	36	106
2)	BRPL	67	42	109	62	63	11	74	48	110
3)	BYPL	60	22	82	50	57	1	58	46	96
4)	NDMC	26	6	32	30	26	4	30	30	60
5)	MES	7	8	15	14	7	7	14	14	28
	TOTAL	**213**	**115**	**328**	**226**	**195**	**23**	**218**	**174**	**400**
	GRAND TOTAL			**546**	**400**					

15.2 For Generating Stations (Meters provided by DTL)

Sr. No.	Station	Metering points (feeders)	Main	check
			Nos. of meters as per beneficiary utility	Nos. of meters as per beneficiary utility
01	IP Station	27	3	3
02	RPH	12	2	2
03	G.T.	8	2	2
04	Pragati	3	3	--
05	BTPS	11	6	6
	TOTAL	**61**	**16**	**13**

a) No. of Meters involved for Intrastate ABT billing with DISCOMs = 226(M)+174(C)+26(Local TX.)

b) No of Meters involved for UI billing of Genco = 16(M)+13 (C)

c) Overall meters dealt by DTL = 455

15.3 For Interstate (Meters provided by NRLDC)

S. N.	Details	Main	Stand by / check
01	Nos. of meters to compute input from the Grid to DTL system	29	19
	Total		48

15.4 The details of the UI Transactions for 2010-11 at Intrastate Level are as under :

15.4.1 UI Transactions of NDPL

Month	Scheduled drawal in Mus	Actual drawal in MUs in Mus	UI Energy in Mus	UI amount as per Intrastate UI account in Rs. Lacs	Adjusted UI Amount to equivate the same with Interstate UI Issued by NRPC for the state Delhi as a whole in Rs. Lacs	Additional UI Amount in Rs. Lacs	Difference in UI Capp Amount in Rs. Lacs	Net UI Amount in Rs. Lacs	Avg. cost in Ps/ Unit
Apr-10	638.739	650.839	12.100	768.23		319.46		729.47	602.85
May-10	860.274	743.854	-116.420	-3925.60	-4130.04	615.21	11.67	-3798.34	326.26
Jun-10	866.191	728.581	-137.610	-3830.98	-4176.42	333.30	0.16	-3842.95	279.26
Jul-10	866.703	758.121	-108.582	-3116.12	-3506.78	367.98	4.39	-3134.40	288.67
Aug-10	785.966	715.047	-70.919	-1657.88	-1869.07	70.77	12.88	-1785.42	251.75
Sep-10	666.576	627.485	-39.091	-613.26	-684.89	2.58	10.57	-671.73	171.84
Oct-10	668.629	571.484	-97.145	-1987.71	-2049.38	25.58	0.00	-2023.80	208.33
Nov-10	461.936	452.678	-9.259	66.77	51.98	0.26	0.00	52.24	-56.42
Dec-10	520.829	496.459	-24.370	-306.22	-322.87	2.10	3.22	-317.54	130.30
Jan-11	604.749	530.480	-74.269	-1673.89	-1886.32	53.41	4.94	-1827.96	246.13
Feb-11	494.519	450.074	-44.444	-1125.85	-1347.81	82.89	3.24	-1261.67	283.88
Mar-11	520.268	493.340	-26.928	-629.57	-946.31	28.18	10.67	-907.46	337.00
Total	7955.380	7218.443	-736.937	-18032.07	-20867.90	1901.75	61.75	-18789.58	254.97

Note :

i) (-)ve indicates amount receivable by the Utility

ii) (+)ve indicates amount payable by the Utility.

iii) The above UI accounts are subject to change if UI accounts are revised by NRPC due to any reason.

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15.4.2 UI Transactions of BRPL

Month	Scheduled drawal in Mus	Actual drawal in MUs in Mus	UI Energy in Mus	UI amount as per Intrastate UI account in Rs. Lacs	Adjusted UI Amount to equivate the same with Interstate UI Issued by NRPC for the state Delhi as a whole in Rs. Lacs	Additional UI Amount in Rs. Lacs	Difference in UI Capp Amount in Rs. Lacs	Net UI Amount in Rs. Lacs	Avg. cost in Ps/ Unit
Apr-10	1010.482	949.074	-61.408	-3536.06		172.94		-3532.83	575.30
May-10	1135.265	1107.306	-27.959	-479.02	-82.00	96.38	242.77	-121.40	43.42
Jun-10	1147.769	1092.173	-55.596	-1447.89	-1513.15	74.26	23.90	-1414.98	254.51
Jul-10	1194.596	1129.616	-64.979	-1941.83	-2103.73	150.66	34.70	-1918.36	295.23
Aug-10	1107.416	1039.109	-68.307	-1835.48	-2112.64	132.67	37.51	-1942.46	284.37
Sep-10	987.707	892.626	-95.082	-1278.02	-1366.24	6.01	8.74	-1351.49	142.14
Oct-10	902.110	824.723	-77.387	-1587.85	-1637.11	21.43	0.00	-1615.68	208.78
Nov-10	625.571	649.547	23.976	467.25	450.93	0.03	0.00	450.97	188.09
Dec-10	704.175	706.847	2.671	338.90	316.48	0.30	13.81	330.59	1237.6
Jan-11	830.232	772.218	-58.015	-1577.26	-1762.32	69.05	8.81	-1684.46	290.35
Feb-11	643.501	607.041	-36.459	-1049.50	-1168.80	40.20	3.65	-1124.95	308.55
Mar-11	734.150	690.720	-43.430	-1109.57	-1529.53	53.42	3.32	-1472.78	339.12
Total	**11022.976**	**10461.000**	**-561.976**	**-15036.32**	**-12508.10**	**817.37**	**377.21**	**-15397.83**	**273.99**

Note :

i) (-)ve indicates amount receivable by the Utility

ii) (+)ve indicates amount payable by the Utility.

iii) The above UI accounts are subject to change if UI accounts are revised by NRPC due to any reason

15.4.3 UI Transactions of BYPL

Month	Scheduled drawal in Mus	Actual drawal in MUs in Mus	UI Energy in Mus	UI amount as per Intrastate UI account in Rs. Lacs	Adjusted UI Amount to equivate the same with Interstate UI Issued by NRPC for the state Delhi as a whole in Rs. Lacs	Additional UI Amount in Rs. Lacs	Difference in UI Capp Amount in Rs. Lacs	Net UI Amount in Rs. Lacs	Avg. cost in Ps/ Unit
Apr-10	614.236	548.496	-65.740	-3956.10		53.15		-4077.63	620.27
May-10	732.374	631.362	-101.012	-3590.55	-3640.64	539.94	11.35	-3480.89	344.60
Jun-10	717.554	617.195	-100.360	-2967.45	-3292.75	325.82	0.34	-2966.59	295.60
Jul-10	717.477	639.722	-77.755	-2566.95	-2992.63	425.77	0.59	-2566.28	330.05
Aug-10	646.205	603.475	-42.731	-1197.71	-1412.17	117.78	10.36	-1284.03	300.49
Sep-10	574.599	519.887	-54.712	-865.25	-938.58	12.01	1.80	-924.77	169.03
Oct-10	527.926	484.424	-43.502	-806.53	-831.60	7.93	0.42	-823.26	189.24
Nov-10	354.586	370.326	15.740	165.60	155.79	0.18	0.00	155.97	99.09
Dec-10	408.213	397.279	-10.934	-437.23	-461.43	9.83	3.53	-448.08	409.81
Jan-11	464.655	437.667	-26.988	-830.28	-938.22	44.87	7.39	-885.96	328.28
Feb-11	359.525	353.993	-5.532	-356.10	-536.70	31.73	7.15	-497.82	899.82
Mar-11	424.648	408.396	-16.252	-318.57	-723.02	12.37	5.71	-704.94	433.75
Total	**6541.999**	**6012.220**	**-529.778**	**-17727.12**	**-15611.96**	**1581.38**	**48.64**	**-18504.27**	**349.28**

Note :

i) (-)ve indicates amount receivable by the Utility

ii) (+)ve indicates amount payable by the Utility.

iii) The above UI accounts are subject to change if UI accounts are revised by NRPC due to any reason

15.4.4 UI Transactions of NDMC

Month	Scheduled drawal in Mus	Actual drawal in MUs in Mus	UI Energy in Mus	UI amount as per Intrastate UI account in Rs. Lacs	Adjusted UI Amount to equivate the same with Interstate UI Issued by NRPC for the state Delhi as a whole in Rs. Lacs	Additional UI Amount in Rs. Lacs	Difference in UI Capp Amount in Rs. Lacs	Net UI Amount in Rs. Lacs	Avg. cost in Ps/ Unit
Apr-10	141.076	121.587	-19.489	-1074.06		59.07		-1117.04	573.17
May-10	136.610	135.959	-0.651	18.37	-8.79	27.75	26.19	14.25	-218.84
Jun-10	125.897	134.460	8.564	363.59	384.54	6.74	18.20	409.48	478.17
Jul-10	126.884	135.044	8.160	288.14	279.41	10.30	33.18	322.89	395.71
Aug-10	120.321	127.006	6.685	205.87	94.09	7.82	26.98	128.89	192.79
Sep-10	105.943	111.508	5.565	92.92	20.63	4.94	6.18	31.75	57.05
Oct-10	111.710	102.791	-8.919	-127.46	-159.27	2.71	0.85	-155.71	174.59
Nov-10	87.676	77.831	-9.845	-179.39	-193.18	2.82	0.00	-190.36	193.35
Dec-10	115.921	87.155	-28.766	-652.57	-689.65	19.86	1.57	-668.22	232.30
Jan-11	129.506	112.290	-17.215	-477.67	-621.32	54.04	4.20	-563.07	327.07
Feb-11	117.543	88.254	-29.289	-792.22	-988.16	94.46	0.53	-893.17	304.95
Mar-11	101.600	104.269	2.670	52.15	-282.31	13.17	1.94	-267.20	-1000.84
Total	**1420.686**	**1338.155**	**-82.531**	**-2282.32**	**-2163.99**	**303.67**	**119.82**	**-2947.51**	**357.14**

Note :

i) (-)ve indicates amount receivable by the Utility

ii) (+)ve indicates amount payable by the Utility.

iii) The above UI accounts are subject to change if UI accounts are revised by NRPC due to any reason

15.4.5 UI Transactions of MES

Month	Scheduled drawal in Mus	Actual drawal in MUs in Mus	UI Energy in Mus	UI amount as per Intrastate UI account in Rs. Lacs	Adjusted UI Amount to equivate the same with Interstate UI Issued by NRPC for the state Delhi as a whole in Rs. Lacs	Additional UI Amount in Rs. Lacs	Difference in UI Capp Amount in Rs. Lacs	Net UI Amount in Rs. Lacs	Avg. cost in Ps/ Unit
Apr-10	22.457	18.243	-4.213	-245.61		0.90		-255.81	607.14
May-10	19.172	20.027	0.854	45.85	50.24	2.71	5.24	57.66	674.84
Jun-10	19.055	19.676	0.621	41.25	25.21	1.56	3.00	29.77	479.64
Jul-10	20.013	20.986	0.973	38.92	32.58	0.47	4.91	37.95	390.08
Aug-10	18.281	19.541	1.260	43.67	-98.28	0.12	3.90	-94.26	-748.11
Sep-10	18.439	17.149	-1.290	-6.58	-18.20	0.05	2.77	-15.38	119.22
Oct-10	24.424	15.342	-9.082	-182.09	-189.69	3.92	0.00	-185.76	204.53
Nov-10	18.663	13.452	-5.211	-70.78	-74.33	0.27	0.00	-74.06	142.11
Dec-10	25.156	19.404	-5.752	-103.70	-108.41	1.90	0.25	-106.26	184.72
Jan-11	27.019	23.318	-3.701	-69.70	-90.77	4.49	1.44	-84.83	229.24
Feb-11	25.255	14.764	-10.491	-234.81	-282.05	17.51	0.05	-264.49	252.12
Mar-11	26.644	14.231	-12.413	-334.59	-492.78	31.90	0.00	-460.88	371.30
Total	**264.577**	**216.131**	**-48.445**	**-1078.16**	**-1246.47**	**65.80**	**21.57**	**-1416.34**	**292.36**

Note :

i) (-)ve indicates amount receivable by the Utility

ii) (+)ve indicates amount payable by the Utility.

iii) The above UI accounts are subject to change if UI accounts are revised by NRPC due to any reason

15.4.6 UI Transactions of IP

Month	Scheduled drawal in Mus	Actual drawal in MUs in Mus	UI Energy in Mus	UI amount as per Intrastate UI account in Rs. Lacs	Adjusted UI Amount to equivate the same with Interstate UI Issued by NRPC for the state Delhi as a whole in Rs. Lacs	Additional UI Amount in Rs. Lacs	Difference in UI Capp Amount in Rs. Lacs	Net UI Amount in Rs. Lacs	Avg. cost in Ps/ Unit
Apr-10	-0.720	-1.308	-0.588	38.77		16.43		34.76	-591.13
May-10	0.648	1.839	1.191	57.08	55.23	0.01	5.23	57.64	483.77
Jun-10	0.720	2.011	1.291	36.20	40.11	0.08	1.42	41.61	322.43
Jul-10	0.744	0.512	-0.232	-2.41	-1.61	1.13	0.68	0.19	-8.26
Aug-10	0.744	0.410	-0.334	-3.73	-35.94	1.65	0.81	-33.47	1003.3
Sep-10	0.720	0.471	-0.249	-4.04	-16.35	0.23	0.22	-15.90	639.01
Oct-10	0.744	0.278	-0.466	-9.47	-9.89	0.22	0.00	-9.68	207.73
Nov-10	0.720	0.276	-0.444	-7.25	-7.67	0.07	0.00	-7.60	171.27
Dec-10	0.744	0.303	-0.441	-9.97	-10.35	0.52	0.00	-9.83	222.74
Jan-11	0.744	0.296	-0.448	-12.11	-14.73	1.34	0.00	-13.39	299.00
Feb-11	0.672	0.319	-0.353	-8.54	-10.60	0.82	0.00	-9.77	276.88
Mar-11	0.744	0.348	-0.396	-10.70	-15.84	0.92	0.00	-14.92	376.87
Total	**7.224**	**5.756**	**-1.468**	**63.82**	**-27.64**	**23.42**	**8.35**	**19.64**	**-133.80**

Note :

i) (-)ve indicates amount receivable by the Utility

ii) (+)ve indicates amount payable by the Utility.

iii) The above UI accounts are subject to change if UI accounts are revised by NRPC due to any reason

15.4.7 UI Transactions of RPH

Month	Scheduled drawal in Mus	Actual drawal in MUs in Mus	UI Energy in Mus	UI amount as per Intrastate UI account in Rs. Lacs	Adjusted UI Amount to equivate the same with Interstate UI Issued by NRPC for the state Delhi as a whole in Rs. Lacs	Additional UI Amount in Rs. Lacs	Difference in UI Capp Amount in Rs. Lacs	Net UI Amount in Rs. Lacs	Avg. cost in Ps/ Unit
Apr-10	55.099	55.046	-0.053	3.44		2.49		-17.98	3400.84
May-10	41.670	41.270	-0.400	5.36	33.18	1.90	0.15	35.02	-875.93
Jun-10	41.024	40.345	-0.679	14.89	-2.43	0.57	0.04	-1.83	26.91
Jul-10	67.639	66.363	-1.277	20.82	2.58	1.42	0.24	4.24	-33.22
Aug-10	71.665	69.744	-1.921	37.02	-83.75	-2.84	0.80	-85.79	446.51
Sep-10	21.146	19.272	-1.874	31.34	1.23	-0.66	0.13	0.69	-3.71
Oct-10	26.252	24.637	-1.616	29.77	15.88	-1.53	0.01	14.36	-88.86
Nov-10	73.691	73.333	-0.358	5.60	4.62	-0.08	0.00	4.54	-126.67
Dec-10	67.163	66.343	-0.820	13.61	6.32	-1.16	0.05	5.21	-63.56
Jan-11	80.164	80.053	-0.111	3.58	-139.92	-0.51	0.07	-140.36	12621.95
Feb-11	57.658	57.285	-0.372	6.06	-77.47	0.19	0.06	-77.23	2073.56
Mar-11	75.914	75.053	-0.861	22.04	-115.19	-1.41	0.07	-116.53	1353.50
Total	**679.086**	**668.744**	**-10.342**	**193.53**	**-354.96**	**-1.63**	**1.61**	**-375.65**	**363.24**

Note :

i) (-)ve indicates amount receivable by the Utility

ii) (+)ve indicates amount payable by the Utility.

iii) The above UI accounts are subject to change if UI accounts are revised by NRPC due to any reason

15.4.8 UI Transactions of GT

Month	Scheduled drawal in Mus	Actual drawal in MUs in Mus	UI Energy in Mus	UI amount as per Intrastate UI account in Rs. Lacs	Adjusted UI Amount to equivate the same with Interstate UI Issued by NRPC for the state Delhi as a whole in Rs. Lacs	Additional UI Amount in Rs. Lacs	Difference in UI Capp Amount in Rs. Lacs	Net UI Amount in Rs. Lacs	Avg. cost in Ps/ Unit
Apr-10	120.418	120.418	0.000	0.00		0.00			0.00
May-10	122.364	122.364	0.000	0.00	0.00	0.00	0.00	0.00	0.00
Jun-10	127.144	127.144	0.000	0.00	0.00	0.00	0.00	0.00	0.00
Jul-10	99.154	99.154	0.000	0.00	0.00	0.00	0.00	0.00	0.00
Aug-10	80.090	80.090	0.000	0.00	0.00	0.00	0.00	0.00	0.00
Sep-10	76.042	76.946	0.904	-21.90	-24.00	0.00	0.08	-23.92	-264.59
Oct-10	132.294	134.021	1.726	-27.73	-48.64	0.00	0.05	-48.59	-281.45
Nov-10	60.779	61.393	0.615	-11.34	-11.96	0.00	0.00	-11.96	-194.62
Dec-10	160.653	160.682	0.029	-0.54	-12.34	0.00	0.00	-12.33	-4189.17
Jan-11	126.366	127.204	0.838	-31.26	-91.29	0.00	0.35	-90.95	-1085.78
Feb-11	100.885	101.441	0.556	-14.01	29.60	0.00	0.36	29.96	539.35
Mar-11	110.302	111.293	0.991	-25.80	-58.64	0.00	0.20	-58.44	-589.70
Total	**1316.491**	**1322.150**	**5.659**	**-132.60**	**-217.27**	**0.00**	**1.05**	**-216.22**	**-382.12**

Note :

i) (-)ve indicates amount receivable by the Utility

ii) (+)ve indicates amount payable by the Utility.

iii) The above UI accounts are subject to change if UI accounts are revised by NRPC due to any reason

15.4.9 UI Transactions of PPCL

Month	Scheduled drawal in Mus	Actual drawal in MUs in Mus	UI Energy in Mus	UI amount as per Intrastate UI account in Rs. Lacs	Adjusted UI Amount to equivate the same with Interstate UI Issued by NRPC for the state Delhi as a whole in Rs. Lacs	Additional UI Amount in Rs. Lacs	Difference in UI Capp Amount in Rs. Lacs	Net UI Amount in Rs. Lacs	Avg. cost in Ps/ Unit
Apr-10	200.618	204.868	4.250	-267.04		1.59		-259.50	-610.54
May-10	207.478	208.976	1.498	-71.39	-69.10	0.00	1.37	-91.16	-608.50
Jun-10	201.965	203.068	1.103	-35.60	-40.02	0.00	0.35	-39.67	-359.65
Jul-10	207.177	208.204	1.027	-47.88	-52.27	0.00	2.02	-50.25	-489.40
Aug-10	204.347	205.010	0.664	-41.98	-59.96	0.00	0.34	-59.62	-898.37
Sep-10	188.193	190.031	1.838	-69.55	-76.58	0.00	0.00	-76.58	-416.68
Oct-10	171.865	171.527	-0.338	3.00	-9.95	0.00	0.01	-9.94	294.35
Nov-10	179.779	180.975	1.196	-31.33	-33.40	0.00	0.00	-33.40	-279.25
Dec-10	216.575	217.135	0.560	-18.82	-23.18	0.00	0.00	-23.18	-413.88
Jan-11	215.754	219.661	3.908	-144.96	-158.81	0.00	0.09	-158.72	-406.18
Feb-11	196.050	199.605	3.556	-132.79	-161.85	0.00	0.21	-161.63	-454.58
Mar-11	57.645	58.771	1.126	-30.40	-51.58	0.00	0.20	-51.38	-456.32
Total	**2247.445**	**2267.833**	**20.388**	**-888.74**	**-736.71**	**1.59**	**4.61**	**-1015.04**	**-497.87**

Note :

i) (-)ve indicates amount receivable by the Utility

ii) (+)ve indicates amount payable by the Utility.

iii) The above UI accounts are subject to change if UI accounts are revised by NRPC due to any reason

15.4.10 UI Transactions of BTPS

Month	Scheduled drawal in Mus	Actual drawal in MUs in Mus	UI Energy in Mus	UI amount as per Intrastate UI account in Rs. Lacs	Adjusted UI Amount to equivate the same with Interstate UI Issued by NRPC for the state Delhi as a whole in Rs. Lacs	Additional UI Amount in Rs. Lacs	Difference in UI Capp Amount in Rs. Lacs	Net UI Amount in Rs. Lacs	Avg. cost in Ps/ Unit
Apr-10	413.156	416.986	3.830	-196.37		8.30		-118.17	-308.53
May-10	326.902	339.520	12.618	-324.71	-296.49	36.25	3.43	-285.76	-226.47
Jun-10	355.089	365.815	10.726	-383.08	-468.27	89.64	1.43	-377.20	-351.68
Jul-10	312.432	316.593	4.161	-161.33	-218.07	50.33	0.34	-167.41	-402.30
Aug-10	288.403	294.239	5.836	-205.38	-280.71	43.96	1.31	-235.45	-403.47
Sep-10	276.518	279.573	3.056	-97.46	-154.38	3.42	3.34	-147.63	-483.14
Oct-10	349.458	368.145	18.687	-472.12	-521.92	25.02	0.00	-496.90	-265.90
Nov-10	267.501	270.400	2.899	-137.30	-147.30	7.29	0.00	-140.01	-482.96
Dec-10	362.707	360.267	-2.439	-10.82	-31.39	3.98	0.14	-27.27	111.79
Jan-11	374.117	386.020	11.903	-407.26	-498.41	55.04	0.52	-442.85	-372.04
Feb-11	367.662	373.486	5.824	-230.61	-311.62	47.80	0.08	-263.75	-452.89
Mar-11	393.449	404.016	10.568	-362.63	-520.03	43.13	0.25	-476.64	-451.03
Total	**4087.393**	**4175.060**	**87.667**	**-2989.07**	**-3448.60**	**414.18**	**10.82**	**-3179.02**	**-362.62**

Note :

i) (-)ve indicates amount receivable by the Utility

ii) (+)ve indicates amount payable by the Utility.

iii) The above UI accounts are subject to change if UI accounts are revised by NRPC due to any reason

16 CAPACITOR REQUIREMENT IN DELHI

16.1 CAPACITOR REQUIREMENT AND INSTALLED CAPACITY OF CAPACITORS IN DELHI AS PER NRPC STUDY FOR 2009-10 AND 2010-11

(**All figures in MVAR)**

Requirement		**Installed Capacity**		**Working Capacity in MVAR**	
2009-10	2010-11	2009-10	2010-11	2009-10	2010-11
2097	4043	3456	3697	3360	3424

[The above does not include LT Capacitors]

16.2 DETAILS OF THE CAPACITORS INSTALLED IN DELHI SYSTEM LUMPED TO THE NEAREST 220KV GRID SUB-STATIONS AS ON 31.03.1011 IS AS UNDER :-

Sl. No	SUB-STATION	INSTALLED CAPACITY IN MVAR			
		66KV	33kV	11kV	**TOTAL**
1	**IP YARD**		30		**30**
1	Kamla Market			16.35	**16.35**
2	Minto Road				
3	GB Pant Hosp			15.88	**15.88**
4	Delhi Gate			10.9	**10.9**
5	Tilakmarg			5.04	**5.04**
6	Electric Lane			5.04	**5.04**
7	Cannaught Place			10.08	**10.08**
8	Kilokri		10.08	10.48	**20.56**
9	NDSE			5.03	**5.03**
10	AIIMS		10	5.04	**15.04**
11	Nizamuddin				
12	Exhibition-I		10		**10**
13	Exhibition-II				
14	Defence Colony				
15	IG Stadium		10.08	5.45	**15.53**
16	Lajpat Nagar				
17	IP Estate			10.9	**10.9**
	Total				**170.4**
2	**IP Extn.**				
1	School Lane			5.04	**5.04**
2	Scindia House			5.04	**5.04**
3	Vidyut Bhawan			10.08	**10.08**
4	Nirman Bhawan			5.04	**5.04**
5	Dalhousie Road			5.04	**5.04**
	Total				**30.24**
3	**RPH Station**		20	5.04	**25.04**
1	Lahori Gate			10.49	**10.49**
2	Jama Masjid			5.03	**5.03**
4	Kamla Market				
5	Minto Road			10.9	**10.9**
6	GB Pant Hosp				
7	IG Stadium				
	Total				**51.46**
4	**Parkstreet S/stn**	20	20		**40**
1	Shastri Park		10.896	5.45	**16.35**
2	Faiz Road			10.9	**10.9**
3	Motia Khan			16.3	**16.3**
4	Prasad Nagar			16.25	**16.25**
5	Anand Parbat			10.8	**10.8**
6	Shankar Road			5.04	**5.04**
7	Rama Road			14.4	**14.4**
8	Baird Road			10.08	**10.08**
9	Hanuman Road			5.04	**5.04**
10	Pusa			7.2	**7.2**
11	Ridge Valley				
12	SJ Airport			5.04	**5.04**
13	B. D. Marg				
	Total				**157.4**

Sl. No	SUB-STATION	INSTALLED CAPACITY IN MVAR			
		66KV	33kV	11kV	**TOTAL**
5	**Naraina S/stn**		20	5.04	**25.04**
1	DMS			10.85	**10.85**
2	Mayapuri		10.87	5	**15.87**
3	Inderpuri		13.26	5.04	**18.3**
4	Rewari line			7.2	**7.2**
5	Khyber Lane			5.04	**5.04**
6	Kirbi Place	10		5.97	**15.97**
7	Payal			14.4	**14.4**
	Total				**112.7**
6	**Mehrauli S/stn**	80		5.04	**85.04**
1	Adchini			15.12	**15.12**
2	Andheria Bagh			10.85	**10.85**
3	IIT			10.9	**10.9**
4	JNU		10.03	10.08	**20.11**
5	Bijwasan			10.08	**10.08**
6	DC Saket		10.08	4.54	**14.62**
7	Malviya Nagar				
8	C Dot			5.4	**5.4**
9	Vasant kunj B-Blk	21.79		10.9	**32.69**
10	Vasant kunj C-Blk	20.16		10.49	**30.65**
11	Palam				
12	IGNOU				
13	R. K. Puram-I			10.08	**10.08**
14	Vasant Vihar			15.12	**15.12**
15	Pusp Vihar			9.6	**9.6**
16	Bhikaji Cama Place		10	10.08	**20.08**
	Total				**290.3**
7	**Vasantkunj S/stn**	40		5.04	**45.04**
1	R. K. Puram-II			7.2	**7.2**
2	Vasant kunj C-Blk				
3	Vasant kunj D-Blk	20.16		10.25	**30.41**
4	Race Course			5.04	**5.04**
5	Bapu Dham			10.08	**10.08**
6	Nehru Park			10	**10**
7	Ridge Valley				
	Total				**107.8**
8	**Okhla S/stn**	60	10	5.04	**75.04**
1	Balaji			7.2	**7.2**
2	East of Kailash			10	**10**
3	Alaknanda			16.25	**16.25**
4	Malviya Nagar	21.79	20.16	10.49	**52.44**
5	Masjid Moth			15.94	**15.94**
6	Nehru Place			21.35	**21.35**
7	Okhla Ph-I	21.79		10.9	**32.69**
8	Okhla Ph-II		20.93	15.53	**36.46**
9	Shivalik			10.9	**10.9**
10	Batra			15.8	**15.8**
11	VSNL			10.8	**10.8**
12	Siri Fort			10.49	**10.49**
13	Tuglakabad			10.8	**10.8**
	Total				**326.2**

Sl. No	SUB-STATION	INSTALLED CAPACITY IN MVAR			
		66KV	33kV	11kV	**TOTAL**
9	**Lodhi Road S/stn**		20		**20**
1	Defence Colony			10.9	**10.9**
2	Hudco			10.9	**10.9**
4	Lajpat Nagar			10.9	**10.9**
5	Nizamuddin			10.49	**10.49**
6	Vidyut Bhawan				
7	Kidwai Nagar			5.04	**5.04**
8	Ex. Gr. II				
9	IHC				
	Total				**68.23**
10	**Sarita Vihar S/stn**	20		5.04	**25.04**
1	Sarita Vihar			10.08	**10.08**
2	MCIE			10.06	**10.06**
3	Mathura Road	20.16		10.08	**30.24**
4	Jamia Millia			5.4	**5.4**
5	Sarai Julena		10.08	10.9	**20.98**
	Total				**101.8**
11	**South of Wazirabad**				
1	Bhagirathi		10.03	10.9	**20.93**
2	Ghonda	21.79	22.56	15.94	**60.29**
3	Seelam Pur		10.08	21.39	**31.47**
4	Dwarkapuri			15.46	**15.46**
5	Nandnagri	20.16		16.35	**36.51**
6	Yamuna Vihar			10.8	**10.8**
7	East of Loni Road			10.8	**10.8**
8	Shastri Park			10.9	**10.9**
9	Karawal Nagar			5.4	**5.4**
	Total				**202.6**
12	**Geeta Colony**				
1	Geeta Colony			10.49	**10.49**
2	Kanti Nagar			10.9	**10.9**
3	Kailash Nagar			15.48	**15.48**
4	Seelam Pur				
5	Shakar Pur				
	Total				**36.87**
13	**Gazipur S/stn**	40		5.04	**45.04**
1	Dallupura	21.79		10.9	**32.69**
2	Vivek Vihar			10.57	**10.57**
3	GT Road			10.85	**10.85**
4	Kondli	20.16		10.85	**31.01**
5	MVR-I			10.9	**10.9**
6	MVR-II	20.16		10.9	**31.06**
7	PPG Ind. Area			10.06	**10.06**
	Total				**182.2**
14	**Patparganj S/stn**	40	20	5.04	**65.04**
1	GH-I	19.89		10.45	**30.34**
2	GH-II	20.09		10.9	**30.99**
3	CBD		10.03	15.48	**25.51**
4	Guru Angad Nagar			15.49	**15.49**
5	Karkadooma		10.08	10.44	**20.52**
6	Preet Vihar			10.07	**10.07**

Sl. No	SUB-STATION	INSTALLED CAPACITY IN MVAR			
		66KV	33kV	11kV	**TOTAL**
7	CBD-II			7.2	**7.2**
8	Shakarpur			5.4	**5.4**
9	Jhilmil			9	**9**
10	Dilshad Garden	20.16		16.35	**36.51**
11	Khichripur	21.79		10.49	**32.28**
12	Mother Dairy				
13	Scope Building				
14	Vivek Vihar				
15	Akhardham			14.4	**14.4**
	Total				**302.8**
15	**Najafgarh S/stn**	60		5.04	**65.04**
1	A4 Paschim Vihar			10.9	**10.9**
2	Nangloi	21.73		15.85	**37.58**
3	Nangloi W/W	20.89		5.45	**26.34**
4	Pankha Road			15.69	**15.69**
5	Jaffarpur			15.49	**15.49**
7	Inst. Area Janakpuri			15.9	**15.9**
8	Paschimpuri		10.05	15.53	**25.58**
9	Paschim Vihar	41.83		15.44	**57.27**
10	Mukherjee Park			15.49	**15.49**
11	Udyog Nagar			10.04	**10.04**
12	Choukhandi			10.08	**10.08**
	Total				**305.4**
16	**Pappankalan-I S/stn**	20		5.04	**25.04**
1	Bindapur	21.73		15.9	**37.63**
2	Bodella-I	20.1		15.9	**36**
3	Bodella-II	21.73		14.53	**36.26**
4	DC Janakpuri			10.04	**10.04**
5	G-2 PPK			10.9	**10.9**
6	G-5 PPK			15.53	**15.53**
7	G-6 PPK			5.45	**5.45**
8	G-15 PPK			10.08	**10.08**
9	Harinagar	21.18		10.49	**31.67**
	Total				**218.6**
17	**BBMB Rohtak Road**				
1	S.B. Mill			10.08	**10.08**
2	GTK Road				**0**
3	Ram Pura			12.24	**12.24**
4	Rohtak Road			10.08	**10.08**
5	Vishal			5.4	**5.4**
6	Madipur			10.43	**10.43**
7	Sudershan Park			10.08	**10.08**
	Total				**58.31**
18	**Shalimarbagh S/stn**		40	6	**46**
1	S.G.T. Nagar			13.15	**13.15**
2	Wazirpur-1			20.7	**20.7**
3	Wazirpur-2			14.4	**14.4**
4	Shalimarbagh				
5	Ashok Vihar			20.35	**20.35**
6	Rani Bagh			14.4	**14.4**

Sl. No	SUB-STATION	INSTALLED CAPACITY IN MVAR			
		66KV	33kV	11kV	**TOTAL**
7	Haiderpur			13.15	**13.15**
8	SMB FC			7.2	**7.2**
9	SMB KHOSLA			7.2	**7.2**
	Total				**156.6**
19	**Subzimandi S/stn**			6	**6**
1	Shakti Nagar			5.04	**5.04**
2	Gulabibagh			7.2	**7.2**
3	Shahzadabagh			19.44	**19.44**
4	Tripolia			14.4	**14.4**
5	B. G. Road				
	Total				**52.08**
20	**Narela S/stn**	40		5.04	**45.04**
1	A-7 Narela			14.4	**14.4**
2	AIR Kham pur			13.15	**13.15**
3	Badli	20		5.95	**25.95**
4	DSIDC Narela	20		5.95	**25.95**
5	DSIDC Narela-2			14.4	**14.4**
6	Jahangirpuri	20	20	5.95	**45.95**
	Total				**184.8**
21	**Gopalpur S/stn**		30	5.04	**35.04**
1	Azad Pur			21.6	**21.6**
2	Hudson Lane			5.95	**5.95**
3	Wazirabad			7.2	**7.2**
4	Indra Vihar			5.95	**5.95**
5	Tri Nagar			14.4	**14.4**
6	GTK Road			13.15	**13.15**
7	Jahangirpuri				**0**
8	Civil lines			6	**6**
9	DIFR			7.2	**7.2**
10	Delhi Univ.			7.2	**7.2**
11	Tiggipur			14.4	**14.4**
	Total				**138.1**
22	**Rohini S/stn**	40		6	**46**
1	Rohini Sec-24 Ckt-I			14.4	**14.4**
2	Rohini Sec-24 Ckt-II	20		14.4	**34.4**
3	Rohini-1			7.2	**7.2**
4	Rohini-2			13.15	**13.15**
5	Rohini-3			5.95	**5.95**
6	Rohini-4			13.15	**13.15**
7	Rohini-5			13.15	**13.15**
8	Rohini-6	20		5.95	**25.95**
9	Mangolpuri-1			20.35	**20.35**
10	Mangolpuri-2	20		5.04	**25.04**
11	Saraswati Garden			10.08	**10.08**
12	Pitam Pura-1	20		12.24	**32.24**
13	Pitam Pura-2			12.24	**12.24**
14	Pitam Pura-3			7.2	**7.2**
15	Rohini DC-1			14.4	**14.4**
	Total				**294.9**

Sl. No	SUB-STATION	INSTALLED CAPACITY IN MVAR			
		66KV	33kV	11kV	**TOTAL**
23	**Kanjhawala S/stn**	20		5.04	**25.04**
1	Bawana Clear Water			14.4	**14.4**
2	Pooth Khoord			7.2	**7.2**
3	Ghevra			14.4	**14.4**
	Total				**61.04**
24	**BAWANA S/stn**				
1	Bawana S/stn No. 6				**0**
2	Bawana S/stn No. 7				**0**
	Total				**0**
25	**Kashmeregate S/stn**			5.04	**5.04**
1	Civil lines			6	**6**
2	Town Hall			8.64	**8.64**
3	Fountain			5.45	**5.45**
	Total				**25.13**
26	**Pappankalan-II**				
1	DMRC-I				
2	DMRC-II				
	Total				
	TOTAL CAPACITY				**3636**

17. TRANSMISSION SYSTEM AVAILABILITY OF DELHI TRANSCO LTD. FOR THE YEAR 2010-11

Sl. No.	Name of Elements	Availability in %age
1	AVAILABILITY OF 8NOS. 400kV, 315MVA ICTs	94.46
2	AVAILABILITY OF 10NOS. 400kV LINES	99.57
3	AVAILABILITY OF 72NOS. 220kV LINES	99.19
4	AVAILABILITY OF 49NOS. 220/66kV ICTs	96.53
5	AVAILABILITY OF 30NOS. 220/33kV ICTs	92.06
6	AVAILABILITY OF 3NOS. 66/33kV ICTs	98.48
7	AVAILABILITY OF 24NOS. 66/11kV PR. TXS	99.68
8	AVAILABILITY OF 16NOS. 33/11kV PR. TXS	98.23
9	AVAILABILITY OF 105NOS. 66kV FEEDER BAYs	99.90
10	AVAILABILITY OF 119NOS. 33kV FEEDER BAYs	99.89
11	AVAILABILITY OF 204NOS. 11kV SYSTEM	100.00
12	AVAILABILITY OF 59NOS. CAP. BANKS	93.04
TOTAL AVAILABILITY OF DTL SYSTEM =		**98.58**

18. NEW ELEMENTS COMMISSIONED IN TRANSMISSION SYSTEM

The following elements added during the year 2010-11

Sr No.	Name of the Element	Date of Commissioning
1	400kV BAMNAULI – MUNDKA CKT-I	06.12.2010 AT 17.42HRS.
2	400kV BAMNAULI – MUNDKA CKT-II	06.12.2010 AT 17.42HRS.
3	400kV BAWANA – MUNDKA CKT-I	07.12.2010 AT 14.03HRS.
4	400kV BAWANA – MUNDKA CKT-II	07.12.2010 AT 14.03HRS.
5	220kV NARAINA – RIDGE VALLEY CKT.	15.09.2010 AT 17.24HRS.
6	220kV BAMNAULI – DIAL CKT-II (LILO OF 220kV BAMNAULI – MEHRAULI CKT-II)	27.09.2010 AT 20.30HRS.
7	220kV DIAL – MEHRAULI CKT-II (LILO OF 220KV BAMNAULI – MEHRAULI CKT-II)	27.09.2010 AT 20.33HRS.
8	220KV BAWANA – KANJHAWALA CKT. (LILO OF 220KV BAWANA – NAJAFGARH CKT-I – T-OFF KANJHAWALA)	12.07.2010 AT 22.01HRS.
9	220KV BAWANA – KANJHAWALA CKT. (LILO OF 220KV BAWANA – NAJAFGARH CKT-I – T-OFF KANJHAWALA)	12.07.2010 AT 22.01HRS.
10	220/66KV 160MVA TX-I AT DIAL	27.09.2010 AT 20.55HRS.
11	220/66KV 160MVA TX-II AT DIAL	27.09.2010 AT 22.15HRS.
12	220/66KV 160MVA TX-I AT RIDGE VALLEY	25.09.2010 AT 19.45HRS.
13	220/66KV 160MVA TX-II AT RIDGE VALLEY	25.09.2010 AT 19.50HRS.
14	220/66KV 160MVA TX-II AT PRAGATI (AUGMENTED FROM 100MVA TO 160MVA)	18.09.2010 AT 16.32HRS.
15	220/33KV 100MVA PR. TR.-III AT SHALIMAR BAGH	25.01.2011 AT 14.40HRS.
16	220/33KV 100MVA PR. TR.-II AT PATPARGANJ (AUGMENTED FROM 50MVA TO 100MVA)	22.09.2010 AT 13.05HRS.
17	66KV SARITA VIHAR – DMRC CKT-I FROM SARITA VIHAR	12.08.2010 AT 12.44HRS.
18	66KV SARITA VIHAR – DMRC CKT-II FROM 220KV SARITA VIHAR	27.09.2010 AT 21.12HRS.
19	66KV PATPARGANJ – GH-I CKT-II FROM 220KV PATPARGANJ	13.08.2010 AT 17.25HRS.
20	66KV MEHRAULI – DMRC CKT.	06.05.2010 AT 15.13HRS.
21	33KV INDERPURI CKT-II AT 220KV NARAINA	11.02.2011 AT 18.00HRS.

19 TRIPPINGS / BREAK-DOWNS IN 400/220KV SYSTEM FOR THE YEAR 2010-11

19.1 DETAILS OF 400/220KV BREAKDOWN/TRIPPINGS OCCURRED IN DTL SYSTEM DURING THE MONTH APRIL 2010

SLNO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
01	01.04.10	14.41	220KV WAZIRABAD – KASHMIRI GATE CKT-II	01.04.10	15.26	CKT. TRIPPED ON GFC-STW1, GFC-STW2, GFC-STW3, Z1 TRIP, ZM2 START AT WAZIRABAD. NO TRIPPING AT KASHMIRI GATE
02	01.04.10	18.34	220KV IP – PATPAR GANJ CKT-I	01.04.10	18.52	CKT. TRIPPED ON ACTIVE GROUP-I, DIST PROT `ABC' PHASE ZONE-I AT PATPARGANJ AND ON DIST PROT `ABC' PHASE ZONE-I, 86X, 186 AT IP STATION.
03	02.04.10	11.11	220/66KV 100MVA PR. TR.-II AT WAZIRABAD	02.04.10	18.48	TR. TRIPPED ON LV REF
04	02.04.10	13.25	33/11KV 16MVA PR. TR.-I AT NARAINA	02.04.10	20.08	TR. TRIPPED ON DIFFERENTIAL, 87R, E/F, 86 ALONG WITH 11KV I/C-I
05	02.04.10	14.50	220KV WAZIRABAD – GEETA COLONY CKT-II	02.04.10	18.05	CKT. TRIPPED ON GFC-STWL2-L3, GFC STFW PHASE TO E, ZM-2, ZM-3 TRIP, ZM-2, ZM-3 START AT WAZIRABAD AND ON DIST PROT `ABC' PHASE ZONE-I, ACTIVE GROUP-I AT GEETA COLONY.
06	02.04.10	14.50	220KV MANDOLA – WAZIRABAD CKT-III	02.04.10	15:04	CKT. TRIPPED ON DIST PROT `R' PHASE ZONE-I AT MANDOLA AND
07	02.04.10	14.50	220/66KV 100MVA PR. TR.-I & II AT WAZIRABAD	02.04.10	15:28 18:45	TR. TRIPPED ON E/F ALONG WITH 66KV I/C-I & II WHICH TRIPPED ON 86.
08	02.04.10	22.45	220KV BTPS – MEHRAULI CKT	02.04.10	23.15	CKT. TRIPPED ON DIST PROT `A' PHASE ZONE-I, 86A&B AT MEHRAULI. NO TRIPPING AT BTPS
09	03.04.10	03.00	220KV PANIPAT – NARELA CKT-III	03.04.10	10:10	CKT. TRIPPED ON 186 AT NARELA.
10	04.04.10	20.12	220KV IP – PATPAR GANJ CKT-I	04.04.10	20.12	CKT. TRIPPED ON DIST PROT `ABC' PHASE ZONE-II AT IP AND ON DIST PROT ZONE-I, 86X AT PATPARGANJ.
11	05.04.10	18.53	22066KV 100MVA PR. TR.-I AT PATPARGANJ	06.04.10	13.55	TR. TRIPPED ON 86, BUCHLOZ ALONG WITH 66KV I/C-I WHICH TRIPPED ON INTERTRIPPING. 66KV BUS COUPLER ALSO TRIPPED ON E/F. `B' PHASE `Y' POLE OF CB DAMAGED.
12	05.04.10	19.03	400KV BAMNAULI – BAWANA CKT-II	05.04.10	19.27	AT BAWANA : ADDED TRIP 186A&B (CB-352&452). CB NO.152 OF BAMNAULI CKT-I TRIPPED ON 186A&B AT BAMNAULI : CB-452 TRIPPED ON `A' PHASE Z ZONE-I, DIST PROT MAIN CB-2 186A&B, AUTO RECLOSE LOCK OUT, TRIP SUPERVISION RELAY 295AC, POLE DISCREPANCY
13	06.04.10	15.38	33/11KV 20MVA PR. TR. AT SHALIMAR BAGH	06.04.10	22.50	TR. TRIPPED ON BUCHLOZ, WINDING TEMP. ALARM, OIL SUDDEN PRESSURE 30D ALONG WITH ITS 11KV I/C.
14	06.04.10	23.49	33/11KV 20MVA PR. TR.-I AT LODHI ROAD	07.04.10	17.40	TR. TRIPPED ON DIFFERENTIALA LONG WITH 11KV I/C-I WHICH TRIPPED WITHOUT INDICATION.

SLNO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
15	09.04.10	11.40	220KV BTPS – MEHRAULI CKT-I	09.04.10	12.39	CKT. TRIPPED ON `B' PHASE E/F AT BTPS. NO TRIPPING AT MEHRAULI.
16	09.04.10	13.37	220KV BTPS – MEHRAULI CKT-I	09.04.10	15.35	CKT. TRIPPED ON `B' PHASE E/F AT BTPS. NO TRIPPING AT MEHRAULI.
17	09.04.10	17.10	220KV PATPARGANJ – GEETA COLONY CKT-II	09.04.10	17.27	CKT. TRIPPED ON ACTIVE GROUP-I, 186, DIST PROT `ABC' PHASE ZONE-I AT PATPARGANJ AND ON ACTIVE GROUP-I, E/F, DIST PROT `ABC' PHASE ZONE-I AT GEETA COLONY
18	10.04.10	06.26	220KV WAZIRABAD – KASHMIRI GATE CKT-I	10.04.10	06.43	CKT. TRIPPED ON DIST PROT `A' PHASE ZONE-I, 86A, 86 AT KASHMIRI GATE. NO TRIPPING AT WAZIRABAD
19	10.04.10	16.33	33/11KV 16MVA PR. TR.-I AT PATPARGANJ	10.04.10	21.54	CKT. TRIPPED ON DIFFERENTIAL `B&C' PHASE, 86 ALONG WITH 11KV I/C-I.
20	11.04.10	09.48	220/33KV 100MVA PR. TR.-I AT SUBZI MANDI	11.04.10	19.13	TR. TRIPPED ON 87, INSTANTANEOUS E/F, 86 ALONG WITH 33KV I/C-I WHICH TRIPPED ON 86
21	11.04.10	12.24	220KV BTPS – MEHRAULI CKT-I	11.04.10	19.03	CKT. TRIPPED ON 30C E/F AT BTPS AND ON DIST PROT ABC' PHASE ACTIVE GROUP-I, 186, 86X AT MEHRAULI. CKT. TRIED TO CLOSE AT 13.59HRS. BUT DID NOT HOLD. CKT. FINALLY CHARGED AT 19.03HRS.
22	12.04.10	08.13	220KV SARITA VIHAR – MAHARANI BAGH CKT	12.04.10	08.35	CKT. TRIPPED ON `Y' PH. NEUTRAL TRIP AT MAHARANI BAGH AND ON DIST PROT `B' PHASE 186AB AT SARITA VIHAR.
23	12.04.10	16.00	33/11KV 16MVA PR. TR.-I AT SUBZI MANDI	12.04.10	16.15	TR. TRIPPED ON 86, NON DIRECTIONAL E/F ALONG WITH 11KV I/C-I WHICH TRIPPED ON `R&B' PHASE E/F
24	13.04.10	13.50	220KV BTPS – MEHRAULI CKT-I	13.04.10	18.04	CKT. TRIPPED ON ACTIVE GROUP-I, 186, DIST PROT `C' PH ZONE-I AT MEHRAULI AND ON `C' PH. E/F AT BTPS.
25	13.04.10	15.10	220/66KV 160MVA TR AT VASANT KUNJ	13.04.10	17.10	TR. TRIPED ON 86, 51X ALONG WITH ITS 66KV I/C WHICH TRIPPED ON 86, `Y' PHASE O/C.
26	13.04.10	18.32	66/11KV 20MVA PR. TR II AT PAPPANKALAN-II	13.04.10	18.51	TR. TRIPPED ON LBB PROT, OCC `R' PHASE, 86
27	13.04.10	19.20	220/33KV 50MVA PR. TR.-I & II AT OKHLA	13.04.10	20.08	TR-I TRIPPED ON 95C, 51AX, 86 AND TR.-II TIPPED ON 51AX, BACK UP PROTEC, 86 ALONNG WITH 33KV I/C-II WHICH TRIPPED ON `R' PHASE E/F. TR.-I & II CHARGED AT 03.20HRS. ON 14.04.2010 AND 20.08HRS. ON 13.04.2010 RESPECTIVELY.
28	14.04.10	00.50	400/220KV 315MVA ICT-I, II & III AT BAMNAULI	14.04.10	02:02 20:01 1:42 4:45	THE FOLLOWING TRIPPINGS OCCURRED : ICT-I : 96, BB1, EX2, BB2, EX2, BB1EX1 ICT-II : 96, 197, 30AH, 67X, 186AB ICT-III : 186AB, 652X, TRIP RELAY GROUP-I, GROUP-A, GROUP-B ICT-IV : 75A, 75C, 86A1, TRIP RELAY GROUP-A, GROUP-B, 97 220KV I/C-I : 297, 175C, 295AC, 175 220KV I/C-II : 175C, 175D, 295CC 220KV I/C-III : 75 220KV I/C-IV : 86 ICT-I, II, III & IV CHARGED AT 02.02HRS, 20:01HRS, 01.42HRS & 04.45HRS RESPECTIVELY.

SLNO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
29	14.04.10	00.50	400KV BAWANA – BAMNAULI CKT-I & II	14.04.10	1:16	DUE TO OPERATION OF BUS BAR PROT. AT BAMNAULI FOLLOWING TRIPPINGS OCCURRED : AT BAWANA : BAMNAULI CKT-I : DIST PROT `B' PH, 30C, BREAKER ALARM, 2/80AC, 30CX2, 30CH-I 400KV BAMNAULI CKT-II :AUTO RECLOSE `B' PH, 130F, BREAKER ALARM.
30	14.04.10	00.50	400KV BALLABHGARH – BAMNAULI CKT-I & II	14.04.10	8:26	CKT TRIPPED AT BAMNAULI DUE TO OPERATION OF BUS BAR PROT
31	15.04.10	11.10	220KV MANDOLA – GOPALPUR CKT-II	15.04.10	11.30	CKT. TRIPPED ON DIST PROT `B' PHASE ZONE-I AT MANDOLA. NO TRIPPING AT GOPALPUR
32	15.04.10	12.21	220KV MANDOLA – GOPALPUR CKT-II	15.04.10	20.45	CKT. TRIPPED ON DIST PROT `B' PHASE AT MANDOLA. NO TRIPPING AT GOPALPUR
33	15.04.10	13.34	220KV MANDOLA – NARELA CKT-I	16.04.10	07.53	CKT. TRIPPED ON DIST PROT `ABC' PHASE ZONE-II AT NARELA AND ON CB AUTO TRIP AT MANDOLA.
34	15.04.10	13.45	220/33KV 100MVA PR. TR.-II AT SUBZI MANDI	15.04.10	14.38	TR. TRIPPED ON O/C, E/F, 86 ALONG WITH ITS 33KV I/C-II WHICH TRIPPED ON 86
35	15.04.10	15.10	220KV SARITA VIHAR – PRAGATI CKT	15.04.10	16.11	CKT. TRIPPED ON DIST PROT `C' PHASE ZONE-I AT SARITA VIHAR AND ON DIST PROT ZONE-1, 186 AT PRAGATI.
36	15.04.10	15.39	220KV SARITA VIHAR – MAHARANI BAGH CKT	15.04.10	15.39	CKT. TRIPPED ON DIST PROT `R' PHASE ZONE-I AT MAHARANI BAGH AND ON DIST PROT `C' PHASE ZONE-I AT SARITA VIHAR.
37	15.04.10	23.48	400/220KV 315MVA ICT-I, II,III & IV AT BAMNAULI	16.04.10	0:48 1:21 0:36 0:49	THE FOLLOWING TRIPPINGS OCCURRED : ICT-I :O/C, 500L AUX E/F, 67X, AUX. BB1, EX1, AUX BUS-I, BB1 EX2, E/S BB2, EX1, EX2, 186A&B1 ICT-II : BUS BAR PROTECTION, 96 ICT-III : AUTO RECLOSE LOCK OUT, AUX PROT. ICT-IV : AUTO RECLOSE SCHEME AA TRIP GROUP-A, 86A, AUX B 86 B, 75A, 75C ICT-I, II, III & IV CHARGED AT 00.47HRS, 01.19HRS, 00.36HRS AND 00.41HRS RESPECTIVELY ON 16.04.2010
38	15.04.10	23.48	400KV BAWANA – BAMNAULI CKT-I & II	16.04.10	00.02	AT BAMNAULI : CKT-I. TRIPPED ON ZB, 96B, AUTO RECLOSE CB-II, 130D, 186A&B, ONLY CB-1852 TRIPPED. CKT-II TRIPPED ZONE LB, 96B, AUTO RECLOSE 186A&B AT BAWANA : CKT-I: MAIN-II BN AIDED TRIP DIST PROT ZONE-I, 186A&B, 30C, H-I, 30CH2
39	15.04.10	23.48	400KV BALLABHGARH – BAMNAULI CKT-I & II	16.04.10	00.02	AT BAMNAULI CKT-I : 130E, GENERAL LOCK OUT, OIL SF6, ONLY CB-452 TRIPPEDD CKT-II : ONLY CB-252 TRIPPED.
40	18.04.10	12.40	220KV BAMNAULI – PAPPANKALAN-I CKT-I	18.04.10	18.15	CKT. TRIPPED ON DIST PROT `A&B' PHASE ZONE-II, 186A&B, 30C, LOW AIR PRESSURE AT BAMNAULI. `R' PHASE CVT BLAST AT BAMNAULI END.

SLNO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
41	18.04.10	22.25	220/66KV 100MVA PR. TR.-I AT NARELA	19.04.10	20.22	TR. TRIPPED ON 51CX, 95A, TRIP CKT FAULTY ALONG WITH 66KV I/C-I. `Y' PHASE CT BLAST`
42	19.04.10	13.44	220KV BTPS – OKHLA CKT-II	19.04.10	14.31	CKT. TRIPPED ON DIST PROT `ABC' PHASE OZNE-I AT OKHLA AND ON OVER-LOAD RELAY AT BTPS.
43	19.04.10	14.59	220/66KV 100MVA PR. TR.-I AT PAPPANKALAN-II	19.04.10	19.15	TR. TRIPPED ON LBB PROT ALONG WITH 66KV I/C-I WHICH TRIPPED ON LBB, E/F
44	19.04.10	05.03	400KV BAWANA – BAMNAULI CKT-I	19.04.10	05.15	CKT. TRIPPED ON ANZ-1, ADDED TRIP, 195B, 295B, 195C, 295C, 186A&B AT BAWANA.
45	20.04.10	17.55	220/66KV 100MVA PR. TR.-I AT NARELA	21.04.10	19.20	TR. TRIPPED ON E/F, 186 ALONG WITH 66KV I/C-II & III WHICH TRIPPED ON E/F.
46	22.04.10	16.02	220/33KV 100MVA PR. TR.-II AT PARK STREET	22.04.10	22.20	TR. TRIPPED ON 86A, 86A ALONG WITH 33KV I/C-II WHICH TRIPPED ON E/F, 51N.
47	25.04.10	08.34	220/66KV 100MVA PR. TR.-IV AT NAJAFGARH	25.04.10	19.45	TR. TRIPPED ON DIFFERENTIAL, 87TB, 86 ALONG WITH 66KV I/C-IV WHICH TRIPPED ON INTER TRIPPING.
48	25.04.10	11.26	220KV BTPS – MEHRAULI CKT-II	25.04.10	12.09	CKT. TRIPPED O `R' PHASE E/F AT BTPS. NO TRIPPING AT MEHRAULI.
49	26.04.10	13.30	220KV WAZIRABAD – GEETA COLONY CKT-I	26.04.10	13.38	CKT. TRIPPED ON DIST PROT `RYB' PHASE ZONE-I AT WAZIRABAD.
50	26.04.10	13.30	220KV PATPARGANJ – GEETA COLONY CKT-I	26.04.10	13.43	CKT. TRIPPED ON ACTIVE GROUP-II, DIST PROT ABC' PHASE ZONE-I, 30E, 86 AT GEETA COLONY AND ON ACTIVE GROUP-I, DIST PROT ABC PHASE ZONE-II AT PATPARGANJ.
51	28.04.10	16.48	220KV BAMNAULI – PAPPANKALAN-II CKT-I	28.04.10	21.16	CKT. TRIPPEDON 186A&B AT BAMNAULI. NO TRIPIPNG AT PAPPANKALAN-II
52	29.04.10	16.51	220KV BAMNAULI – NAJAFGARH CKT-I & II	29.04.10	17.45	CKT-I TRIPPED ON DIST PROT `B' PHASE ZONE-II, 186 AND CKT-II TRIPPED ON DIST PROT `C' PHASE ZONE-II, 186 AT BAMNAULI END. AT NAJAFGARH CKT-I TRIPPED ON DIST PROT `B' PHASE, 186 AND CKT-II TRIPPED ON DIST PROT `C' PHASE 186 CKT-I & II CHARGED AT 17.45HRS. AND 17.26HRS. RESPECTIVELY
53	30.04.10	03.12	220/33KV 100MVA PR. TR.-I AT GEETA COLONY	30.04.10	13:48	TR. TRIPPED ON BUCHLOZ, 86T, 30A ALONG WITH 33KV I/C-I WHICH TRIPPED ON CB AUTO TRIP, 30E
54	30.04.10	15.22	220KV BAMNAULI – NAJAFGARH CKT-I & II	30.04.10	16.10	FOLLOWING TRIPIPNGS OCCURRED : AT BAMNAULI : NAJAGARH CKT-I : DIST PROT ZONE-II NAJAFGARH CKT-II : DIST PROT `B' PHASE ZONE-II AT NAJAFGARH BAMNAULI CKT-I : DIST PROT `A' PHASE, 186 BAMNAULI CKT-II : DIST PROT `C' PHASE, 186 CKT-I & II CHARGED AT 16.10HRS. AND 08.08HRS. (01.05.2010)
55	30.04.10	21.15	33/11KV 16MVA PR. TR.-II AT SUBZI MANDI	01.05.10	00.12	TR. TRIPPED ON 30ABC, DEF, AUXILIARY RELAY, 86

19.2 DETAILS OF 400/220KV BREAKDOWN/TRIPPINGS OCCURRED IN DTL SYSTEM DURING THE MONTH MAY –2010

SLNO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
01	01.05.10	08.56	220KV MANDOLA – GOPALPUR CKT-II	01.05.10	09.45	CKT. TRIPPED ON DIST PROT `B' PHASE ZONE-I AT GOPALPUR.
02	01.05.10	18.08	220/66KV 100MVA PR. TR.-I T WAZIRABAD	01.05.10	18.24	TR. TRIPPED ON E/F, NON DIRECTIONAL E/F
03	01.05.10	18.08	220KV WAZIRABAD – GEETA COLONY CKT-II	02.05.10	02.00	CKT. TRIPPED ON DIST PROT ZONE-III AT WAZIRABAD.
04	01.05.10	18.08	220/33KV 100MVA PR. TR-I & II AT GEETA COLONY	01.05.10	19.25	BOTH TRS TRIPPED ON 86, 30E.
05	01.05.10	18.16	220KV GEETA COLONY – PATPARGANJ CKT-I	01.05.10	23.03	CKT. TRIPPED ON DIST PROT `ABC' PHASE ZONE-II AT GEETA COLONY.
06	01.05.10	18.40	33/11KV 16MVA PR. TR-II AT SUBZI MANDI	01.05.10	20.38	TR. TRIPPED ON 30ABCDEF, 86 ALONG WITH ITS 11KV I/C-II WHICH TRIPPED ON INTER TRIPPING
07	02.05.10	06.58	66/11KV 20MVA PR.TR.-III AT WAZIRABAD	02.05.10	09.00	TR. TRIPPED ON 30F, 30ABCDEF, 86
08	04.05.10	18.18	220KV SARITA VIHAR - MAHARANI BAGH CKT.	04.05.10	22.11	CKT. TRIPPED ON DIST PROT `Y&B' PHASE ZONE-I AT MAHARANI BAGH.
09	05.05.10	14.21	220KV BAMNAULI – MEHRAULI CKT-I	05.05.10	14.41	CKT. TRIPPED ON DIST PROT, `A' PHASE ZONE-II AT BAMNAULI AND ON DIST PROT `A' PHASE ZONE-I AT MEHRAULI.
10	07.05.10	14.03	220KV BTPS – MEHRAULI CKT-II	07.05.10	16.35	CKT. TRIPPED ON DIST PROT `AB' PHASE ZONE-I AT MEHRAULI.
11	07.05.10	19.58	220KV LODHI ROAD – MAHARANI BAGH CKT-I	07.05.10	20.41	CKT. TRIPPED ON DIST PROT ZONE-I AT MAHARANI BAGH.
12	08.05.10	15.20	220/33KV 100MVA PR. TR.-I AT SUBZI MANDI	08.05.10	19.35	TR. TRIPPED ON 86, 87, 64 E/F ALONG WITH ITS 33KV I/C.
13	08.05.10	15.43	220/33KV 100MVA PR. TR.-II AT SUBZI MANDI	08.05.10	15.59	TR. TRIPPED ON O/C, E/F, 86.
14	09.05.10	17.32	220KV BTPS – NOIDA – GAZIPUR CKT.	10.05.10	09.25	CKT. TRIPPED ON 86ABC, 186ABC, DIST PROT ZONE-II AT BTPS.
15	10.05.10	23.48	66/11KV 20MVA PR. TR.-II AT SARITA VIHAR	11.05.10	15.48	TR. TRIPPED ON 86, 87, 64RLV ALONG WITH ITS 11KV I/C WHICH TRIPPED ON LOCKOUT RELAY
16	11.05.10	17.58	220/66KV 160MVA PR. TR. AT PRAGATI	11.05.10	19.50	TR. TRIPPED ON 30A, 86, BUCHLOZ,
17	11.05.10	19.36	220KV BTPS – MEHRAULI CKT-II	11.05.10	19.49	CKT. TRIPPED ON DIST PROT A' PHASE ZONE-I AT MEHRAULI.
18	12.05.10	21.32	220KV GEETA COLONY – PATPARGANJ CKT-I	12.05.10	22.09	CKT. TRIPPED ON 86 AT PATPARGANJ.
19	13.05.10	03.25	66/11KV 20MVA PR. TR.-II AT NARELA	13.05.10	08.13	TR. TRIPPED ON TRIP CKT. FAULTY, SUPERVISION RELAY.
20	13.05.10	10.45	220KV BAMNAULI – NAJAFGARH CKT-I	13.05.10	10.45	CKT. TRIPPED ON 186A&B `R' PHASE AT BAMNAULI AND ON 186A&B ZONE-I AT NAJAFGARH.

SLNO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
21	13.05.10	12.20	220KV BTPS – MEHRAULI CKT-II	13.05.10	12.40	CKT. TRIPPED ON 186, 30A, 30G, 86X1, 86X2 AT BTPS AND ON DIST PROT `A' PHASE ZONE-I, 186 AT MEHRAULI.
22	13.05.10	13.17	220KV BTPS – MEHRAULI CKT-I	13.05.10	13.48	CKT. TRIPPED ON 186, 30A, 30G, 86X1, 86X2 AT BTPS. NO TRIPPING AT MEHRAULI.
23	13.05.10	13.17	220/33KV 50MVA PR. TR.-II AT OKHLA	13.05.10	14.10	CKT. TRIPPED ON 86, 87.
24	13.05.10	12.59	220KV BTPS – NOIDA – GAZIPUR CKT.	13.05.10	13.30	CKT. TRIPPED 186A, 186B, 86A AT BTPS.
25	13.05.10	12.20	220KV BAMNAULI - NAJAFGARH CKT-I	13.05.10	16.20	CKT. TRIPPED ON DIST PROT `A&B' PHASE, 86 AT BAMNAULI AND DIST PROT `A' PHASE AT NAJAFGARH.
26	13.05.10	12.50	220KV MANDOLA – GOPALPUR CKT-II	13.05.10	12.59	CKT. TRIPPED ON DIST PROT ZONE-I AT GOPALPUR AND ON DIST PROT `B' PHASE ZONE-II AT MANDOLA.
27	13.05.10	13.00	220/33KV 100MVA PR. TR.-I AT SUBZI MANDI	13.05.10	15.30	TR. TRIPPED ON 86, 64REF ALONG WITH ITS 33KV I/C WHICH TRIPPED ON 86.
28	13.05.10	13.38	220/33KV 100MVA PR. TR.-II AT SUBZI MANDI	13.05.10	14.00	TR TRIPPED ON 86, O/C, E/F ALONG WITH ITS 33KV I/C WHICH TRIPPED ON 86
29	13.05.10	14.21	220/33KV 100MVA PR. TR.-II AT SUBZI MANDI	13.05.10	15.03	TR TRIPPED ON E/F
30	13.05.10	14.21	220KV BTPS – MEHRAULI CKT-I	13.05.10	15.00	CKT. TRIPPED ON 186, 30C, 30G AT BTPS.
31	13.05.10	17.58	220KV PANIPAT – NARELA CKT-III	13.05.10	18.53	CKT. TRIPPED ON DIST PROT `ABC' PHASE ZONE-I AT NARELA.
32	15.05.10	12.56	220KV MANDOLA – GOPALPUR CKT-II	15.05.10	19.07	CKT. TRIPPED ON DIST PROT ZONE-I, 86RYB, 186A&B AT MANDOLA AND ON DIST PROT `B' PHASE ZONE-I AT GOPALPUR.
33	15.05.10	13.05	220KV BTPS – MEHRAULI CKT-II	15.05.10	13.25	CKT. TRIPPED ON 30A, 30G AT BTPS AND ON DIST PROT `A' PHASE ZONE-I, 86 AT MEHRAULI.
34	16.05.10	04.42	400KV BAMNAULI – BAWANA CKT-I	17.05.10	02.57	CKT. TRIPPED ON OVER VOLTAGE, 86OB, 186AB, 59B ON BOTH CB AT BAMNAULI AND ON 85LO, 85LOX, 30CH-I, 186AB ON BOTH CB AT BAWANA
35	15.05.10	08.09	220KV MANDOLA – NARELA CKT-II	15.05.10	11.29	CKT. TRIPPED WITHOUT INDICATION AT NARELA.
36	16.05.10	03.40	66/33KV 30MVA PR. TR.-II AT PARK STREET	16.05.10	19.40	TR. TRIPPED ON 87R, 87V, 64RLV, 86, 95 ALONG WITH ITS 33KV I/C-II WHICH TRIPPED ON INTER TRIPPING.
37	17.05.10	01.40	220/66KV 100MVA PR. TR.-I AT PAPPANKALAN-II	17.05.10	02.18	TR. TRIPPED ALONG WITH ITS 66KV I/C ON E/F

SLNO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
38	18.05.10	09.59	400KV BALLABHGARH – BAMNAULI CKT-I & II	18.05.10	11.10	THE FOLLOWING TRIPPING OCCURRED AT BAMNAULI :- 400KV BALLABHGARH – BAMNAULI CKT-I : **CB-152** : 186AB, AUTO RECLOSE LOCK OUT, 30C, LOSS OF SF6 BREAKER, 186A&B **CB-252** : 186AB, AUTO RECLOSE LOCK OUT, 30C, LOSS OF SF6 BREAKER, 186A &B, AUX LBB, 2/50, Z-II, 130C, 130E 400KV BALLABHGARH – BAMNAULI CKT-II CB-352 & 452 : LOCK OUT, DIST PROT MAIN-II CNZ-I, III, LBB, 186A&X, AUX LBB, 50Z, 186A&B CKT-I & II CHARGED AT11.10HRS. AND 10.52HRS.
39	18.05.10	09.59	400KV BAMNAULI – BAWANA CKT-I & II	18.05.10	10.45	THE FOLLOWING TRIPPING OCCURRED AT BAMNAULI :- 400KV BAWANA CKT-I : NO TRIPPING 400KV BAWANA CKT-II : CB-1752 : TRIP ZONE LB 96B, TIMER AC FAIL, 2/80 AC, 186A&B CB-1652 : NO TRIPPING 400KV BUS BAR PROT. OPERATED AT BAWANA. CKT-I & II CHARGED AT 10.33HRS. AND 10.45HRS.
40	18.05.10	09.59	400/220KV 315MVA ICT-I, II, III & IV AT BAMNAULI	18.05.10	10.49	THE FOLLOWING TRIPPINGS OCCURRED :- ICT-I : 186AB, 86A-I, 86B-I, 96 ICT-II : 186A&B, TRIP GROUP-I, 86A-I, TRIP GROUP-II 86 B-I, 197 FUSE FAIL, TRIP BUS BAR PROTECTION 96, AUX FAIL, 30X, 30AH ICT-III : 186AX, 186B, 652, 86A-I, 86B-I, DIRECTIONAL / NON DIRECTIONAL O/C, 67/50 ICT-IV : 186A&B, AUTO RECLOSE, AA, TRIP RELAY GROUP-A, 86A-I, TRIP RELAY GROUP-B, 86B ICT-II, III & IV CHARGED AT 10.43HRS. AND ICT-I CHARGED AT 10.49HRS
41	20.05.10	12.48	220KV MANDOLA – NARELA CKT-II	20.05.10	12.59	CKT. TRIPPED ON 186ABC, PSV E/F AT NARELA AND ON DIST PROT `B' PHASE ZONE-II AT MANDOLA.
42	23.05.10	13.35	220KV BTPS – MEHRAULI CKT-II	23.05.10	13.50	CKT. TRIPPED ON 30A, 30G AT BTPS
43	23.05.10	23.45	66/11KV 20MA PR.TR-III AT PAPPANKALAN-II	24.05.10	00.45	TR. TRIPPED ON E/F
44	24.05.10	06.55	33/11KV 16MVA PR. TR.-II AT SUBZI MANDI	24.05.10	17.08	TR. TRIPPED ON 86, 87.
45	24.05.10	17.25	220/663KV 100MVA PR. TR.-I AT PAPPANKALAN-II	24.05.10	17.47	TR. TRIPPED ON LBB PROTECTION ALONG WITH 66KV I/C-I WHICH TRIPPED ON E/F
46	24.05.10	19.12	33/11KV 16MVA PR. TR. AT SHALIMAR BAGH	24.05.10	22.55	TR. TRIPPED ON 86, 87 ALONG WITH ITS 11KV I/C-II WHICH TRIPPED ON 86.
47	24.05.10	23.12	66/11KV 20MVA PR. TR.-III AT PAPPANKALAN-I	24.05.10	23.23	TR. TRIPPED ON O/C `Y' PHASE, 86 ALONG WITH ITS 11KV I/C WHICH TRIPPED ON INTER TRIPPING.

SLNO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
48	25.05.10	18.08	220/33KV 100MVA PR. TR.-II AT PARK STREET	26.05.10	12.23	TR. TRIPPED ON 87TA, 87TB, 64RIV.
49	26.05.10	14.45	220KV MANDOLA – GOPALPUR CKT-II	26.05.10	15.02	CKT. TRIPPED ON DIST PROT `B' PHASE ZONE-I AT MANDOLA AND ON DIST PROT `B' PHASE, 86 AT GOPALPUR.
50	26.05.10	21.12	220KV BAMNAULI – PAPPANKALAN-I CKT-I & II	26.05.10	22.15	BOTH CKT. TRIPPED ON 186, MASTER RELAY AT PAPPANKALAN-I.
51	26.05.10	23.12	66/11KV 20MVA PR. TR -III AT PAPPANKALAN-I	26.05.10	23.55	TR. TRIPPED ON E/F, 86.
52	27.05.10	15.43	66/33KV 30MVA PR. TR.-I PARK STREET	27.05.10	16.17	TR. TRIPPED ON SUDDEN PRESSURE LOW, O/C, E/F, 86, 95ABC-I ALONG WITH 33KV I/C-I WHICH TRIPPED ON TRIP CKT. SUPERVISION RELAY.
53	27.05.10	18.08	220/66KV 100MVA PR. TR-I & III AT MEHRAULI	27.05.10	18.40	TR.-I TRIPPED ALONG WITH ITS 66KV I/C ON E/F. TR.-III TRIPPED ON O/C/
54	28.05.10	17.15	220KV BTPS – NOIDA – GAZIPUR CKT.	28.05.10	17.31	CKT. TRIPPED ON `R' PHASE E/F AT BTPS.
55	29.05.10	08.15	220KV MEHRAULI – VASANT KUNJ CKT-II	29.05.10	08.46	CKT. TRIPPED ON O/C, 67CX, 186A&B AT MEHRAULI.
56	29.05.10	16.05	220KV BAWANA – NAJAFGARH CKT-I	29.05.10	16.30	CKT. TRIPPED ON DIST PROT, AUTO RECLOSE AT BAWANA AND ON 186 AT NAJAFGARH.
57	29.05.10	16.22	220KV MANDOLA – GOPALPUR CKT-I	29.05.10	17.05	CKT. TRIPPED ON DIST PROT `R' PHASE ZONE-I AT MANDOLA AND ON DIST PROT `RYB' PH. ZONE-I AT GOPALPUR.
58	29.05.10	16.22	220KV MANDOLA – GOPALPUR CKT-I	29.05.10	17.17	CKT. TRIPPED ON DIST PROT `B' PH ZONE-I AT MANDOLA AND ON DIST PROT `RYB' PH. ZONE-I AT GOPALPUR.
59	29.05.10	16.26	400KV BAMNAULI – BAWANA CKT-I	29.05.10	17.12	CKT. TRIPPED ON CNZ-I `B' PH ZONE-I, 186 ON BOTH CB AT BAWANA AND ON 186 `C' PHASE ZONE-I AT BAMNAULI.
60	29.05.10	16.26	400KV MANDOLA – BAWANA CKT-II	29.05.10	16.48	CB-1752 TRIPPED ON POLE DISCREPANCY, AUTO TRIP, ANZ-I, ANZ-II, CB-1852 TRIPPED ON DIRECT TRIP AT BAWANA.
61	29.05.10	16.50	220KV MANDOLA – NARELA CKT-I &II	29.05.10	17.32	THE FOLLOWING TRIPPING OCCURRED :- AT MANDOLA NARELA CKT-I : DIST PROT ZONE-III RN NARELA CKT-II : ZONE-I, RN AT NARELA MANDOLA CKT-I : NO TRIPPING MANDOLA CKT-II: 186, E/F, ZONE-II CKT-I & II CHARGED AT 17.31HRS. AND 17.31HRS RESPECTIVELY.
62	29.05.10	17.46	220KV MANDOLA – NARELA CKT-I	29.05.10	18.17	CKT-I TRIPPED ON DIST PROT ZONE-III 'ABC' PH AT NARELA.
63	29.05.10	17.30	220KV PANIPAT – NARELA CKT-III	29.05.10	18.05	CKT. TRIPPED ON DIST PROT `ABC' PHASE ZONE-I, 87T AT NARELA.
64	31.05.10	16.03	220KV MEHRAULI – VASANT KUNJ CKT-I & II	31.05.10	16.20	CKT-I TRIPPED ON DIST PROT `A' PH, 186AB, 195CB AND CKT-II TRIPPED ON 186AB, 67CX AT MEHRAULI. NO TRIPPING AT VASANT KUNJ. CKT-I & II CHARGED AT 16.05HRS. AND 16.20HRS RESPECTIVELY.

19.3 DETAILS OF 400/220KV BREAKDOWN/TRIPPINGS OCCURRED IN DTL SYSTEM DURING THE MONTH JUNE - 2010

SLNO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
01	03.06.10	06.55	33/11KV 20MVA PR. TR. AT KASHMIRI GATE	03.06.10	09.38	TR. TRIPPED ON 86, 87R, 87Y ALONG WITH 11KV I/C-I WHICH TRIPPED WITHOUT INDICATION.
02	04.06.10	23.36	400KV BAWANA – ABDULLAPUR CKT.-I	04.06.10	23.52	CKT. TRIPPED ON DIST PROT `AB' PHASE ZONE-I, 186A&B, BOTH BREAKER, 85Y AT BAWANA.
03	05.06.10	19.38	220KV BTPS – OKHLA CKT-II	06.06.10	01.20	CKT. TRIPPED ON E/F AT BTPS. NO TRIPPING AT BTPS
04	05.06.10	20.05	220KV BTPS – OKHLA CKT-I	05.06.10	20.38	CKT. TRIPPED ON 30G. E/F AT BTPS. CKT. TRIPPED WHILE BACK CHARGING 220KV BTPS – OKHLA CKT-II FROM BTPS THROUGH CKT-I.
05	05.06.10	19.36	220/33KV 50MVA PR. TR.-II AT OKHLA	05.06.10	22.15	TR. TRIPPED ON DIFFERENTIAL, 86T, 86
06	06.06.10	18.44	220KV PATPARGANJ – GEETA COLONY CKT-II	06.06.10	18.56	CKT. TRIPPED ON ACTIVE GROUP, DIST PROT `ABC' PHASE ZONE-I, 86, 27RYB, 30E AT GEETA COLONY. NO TRIPPING AT PATPARGANJ.
07	08.06.10	13.38	33/11KV 16MVA PR. TR.-II AT SUBZI MANDI	08.06.10	15.35	TR. TRIPPED ON 87R, 86
08	08.06.10	13.52	400/220KV 400MVA ICT-I AT BAMNAULI	09.06.10	01.04	ICT TRIPPED ON 86A, 86B, CB-1, X1, CB-1 X2, CB-2 X1, A' PHASE, 87A, 87C, 30AH, CONTROL SUPPLY FAILURE ALONG WITH ITC 220KV I/C-I WHICH TRIPPED ON 175A, 175D, 297D, PT FUSE FAIL, 195AC, 30D, 167A, O/C `A' PHASE.
09	09.06.10	08.45	220KV RPH – IP CKT-I	09.06.10	17.05	CKT. TRIPPED ON E/F, AUTO RECLOSE, 186A&B AT RPH
10	09.06.10	03.19	220KV MANDOLA – WAZIRABAD CKT-II	09.06.10	03.36	CKT. TRIPPED ON DIST PROT `B' PHASE ZONE-I, 86RYB, 186A&B AT MANDOLA AND ON GENERAL TRIP, DIST PROT ``YB' PHASE ZONE-I AT WAZIRABAD.
11	09.06.10	11.10	33/11KV 20MVA PR. TR.-I AT LODHI ROAD	10.06.10	11.10	TR. TRIPPED ON DIFFERENTIA ALONG WITH 11KV I/C-I WHICH TRIPPED ON INTER TRIPPING.
12	11.06.10	10.11	220KV BTPS – NOIDA – GAZIPUR CKT.	11.06.10	10.30	CKT. TRIPPED ON `B' PHASE E/F AT BTPS. NO TRIPPING AT GAZIPUR
13	12.06.10	09.20	220KV GEETA COLONY – PATPARGANJ CKT-I	12.06.10	09.43	CKT. TRIPPED ON DIST PROT `ABC' PHASE ZONE-I, 86, 27, 30E AT GEETA COLONY AND ON DIST PROT `ABC' PHASE ZONE-I, 86, 186 AT PATPARGANJ.
14	12.06.10	09.20	220KV WAZIRABAD – GEETA COLONY CKT-I	12.06.10	09.39	CKT. TRIPPED ON DIST PROT `RYB' PHASE ZONE-I AT WAZIRABAD.
15	12.06.10	12.04	220KV BTPS – MEHRAULI CKT-I	12.06.10	12.20	CKT. TRIPPED ON DIST PROT `A' PHASE ZONE-I, 30G, 186 AT BTPS. NO TRIPPING AT MEHRAULI.
16	12.06.10	12.35	220KV BTPS – MEHRAULI CKT-I	12.06.10	21.00	CKT. TRIPPED ON DIST PROT `A' PHASE ZONE-I, 30G, 186 AT BTPS. NO TRIPPING AT MEHRAULI.
17	13.06.10	15.39	220KV GEETA COLONY – PATPARGANJ CKT-I	13.06.10	16.35	CKT. TRIPPED ON DIST PROT `BC' PH ZONE-I, 86, 30E, 27RYB AT GEETA COLONY & ON DIST PROT ZONE-II AT PATPARGANJ.

SLNO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
18	13.06.10	15.39	220KV MANDOLA – WAZIRABAD CKT-III	13.06.10	16.05	CKT. TRIPPED ON DIST PROT `R' PH ZONE-I, 86, 86Y,186A&B AT MANDOLA. NO TRIPPING AT WAZIRABAD.
19	13.06.10	15.39	220KV PATPARGANJ – IP CKT-II	13.06.10	16.20	CKT. TRIPPED ON DIST PROT `XY, ZONE-I AT PATPARGANJ.
20	13.06.10	15.46	220KV BTPS – OKHLA CKT-I	13.06.10	16.13	BUS BAR PROTECTION OPERATED AT OKHLA. NO TRIPPING AT BTPS.
21	13.06.10	16.04	220KV SARITA VIHAR – PRAGATI CKT.	13.06.10	16.26	CKT. TRIPPED ON ACTIVE GROUP-I, DIST PROT `B' PHASE ZONE-I AT PRAGATI AND ON DIST PROT. 'B' PHASE, 186A&B AT SARITA VIHAR
22	13.06.10	16.10	66/11KV 20MVA PR. TR.-II AT PAPPANKALAN-II	13.06.10	21.10	TR. TRIPPED ON O/C, `B' PHASE, 86
23	13.06.10	15.25	66/11KV 20MVA PR. TR.-I AT NARELA	13.06.10	18.59	TR. TRIPPED ON 30A, BUCHLOZ, 86, WINDING TEMP. ALARM ALONG WITH 11KV I/C-I WHICH TRIPPED WITHOUT INDICATION.
24	15.06.10	11.28	220KV MEHRAULI – BTPS CKT-I & II	15.06.10	17.55	CKT-II TRIPPED ON 30A, 30BC, 30AB, 30G, DIST PROT ZONE-I AT BTPS AND ON DIST PROT `ABC' PHASE ACTIVE GROUP-I, 186 AT MEHRAULI. CKT-I TRIPPED AT MEHRAULI WITHOUT INDICATION. CKT-I & II CHARGED AT 11.54HRS AND 17.55HRS RESPECTIVELY.
25	15.06.10	12.59	220KV MEHRAULI – BTPS CKT-I	15.06.10	16.50	CKT. TRIPPED ON DIST PROT `ABC' PHASE ZONE-III, 186 AT MEHRAULI AND ON 30C, 30G AT BTPS.
26	15.06.10	06.58	220KV MEHRAULI – VASANT KUNJ CKT-I	15.06.10	07.20	CKT. TRIPPED ON 95CB, 186A, 186B, DIST PROT `B' PHASE AT MEHRAULI. NO TRIPPING AT VASANT KUNJ.
27	16.06.10	15.10	220/33KV 100MVA PR. TR.-I AT SUBZI MANDI	17.06.10	08.15	TR. TRIPPED ON 86, 64RLV ALONG WITH 33KV I/C-I WHICH TRIPPED ON 86.
28	16.06.10	15.15	220KV BTPS – MEHRAULI CKT-I	16.06.10	17.52	CKT. TRIPPED ON `C' PHASE E/F AT BTPS AND ON DIST PROT `ABC' PHASE ZONE-I, 186A&B AT MEHRAULI
29	19.06.10	14.20	220KV BAMNAULI – NAJAGARH CKT-I	19.06.10	14.39	CKT. TRIPPED ON DIST PROT `A' PHASE ZONE-II, 186A&B AT BAMNAULI AND ON 186A&B AT NAJAFGARH.
30	19.06.10	06.50	220/66KV 100MVA PR. TR-II AT DSIDC NARELA	19.06.10	12.35	TR. TRIPPED ON DIFFERENTIAL, 87, 30A, BUCHLOZ, 30J ALONG WITH 66KV I/C-II WHICH TRIPPED WITHOUT INDICATION.
31	20.06.10	09.48	220KV BTPS – NOIDA – GAZIPUR CKT.	20.06.10	10.25	CKT. TRIPPED ON E/F AT BTPS. NO TRIPPING AT GAZIPUR
32	20.06.10	12.36	220/66LV 100MVA PR. TR.-I AT PATPARGANJ	21.06.10	00.43	TR. TRIPPED ON 86, 84RHV ALONG WITH 66KV I/C-I & II WHICH TRIPPED WITHOUT INDICATION. `Y' PHASE CT OF 66KV I/C-II BLASTED.
33	20.06.10	12.59	220KV BAMNAULI – NAJAFGARH CKT-I	20.06.10	18.05	CKT. TRIPPED ON DIST PROT `R' PHASE ZONE-II, 186A&B, AUTO RECLOSE LOCK OUT AT BAMNAULI AND ON DIST PROT `A' PHASE, 186 AT NAJAFGARH.
34	20.06.10	13.52	220KV SARITA VIHAR – MAHARANI BAGH CKT	20.06.10	14.42	CKT. TRIPPED ON DIST PROT ZONE-I AT MAHARANI BAGH AND ON DIST PROT `A' PHASE ZONE-I AT SARITA VIHAR

SLNO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
35	20.06.10	14.43	220KV BAWANA – NAJAFGARH CKT-I	20.06.10	14.50	CKT. TRIPPED ON DIST PROT AT BAWANA AND ON DIST PROT `ABC' PHASE, 86, 186A&B AT NAJAFGARH
36	20.06.10	14.58	220KV MANDOLA – GOPALPUR CKT-II	20.06.10	19.17	CKT. TRIPPED ON `B' PHASE E/F AT MANDOLA AND ON DIST PROT `R' PHASE ZONE-I AT GOPALPUR.
37	20.06.10	18.38	220KV GEETA COLONY – PATPARGANJ CKT-I	20.06.10	21.08	CKT. TRIPPED ON DIST PROT `ABC' PHASE, 27, 86, 30E AT GEETA COLONY AND ON DIST PROT `ABC' PHASE ZONE-I, 186 AT PATPARGANJ.
38	21.06.10	13.08	220/66KV 100MVA PR. TR.-I AT PATPARGANJ	21.06.10	19.19	TR. TRIPPED ON DIFFERENTIAL, 86.
39	21.06.10	13.58	400KV BAMNAULI – BAWANA CKT-I	21.06.10	14.27	CKT. TRIPPED ON 186A&B, CB TRIP, BOTH CB AUTO TRIP AT BAMNAULI.
40	22.06.10	22.40	66/11KV 20MVA PR. TR.-III AT PAPPANKALAN-I	22.06.10	22.55	TR. TRIPPED ON `Y' PHASE O/C.
41	22.06.10	07.58	220/66KV 100MVA PR. TR.-II AT OKHLA	22.06.10	10.20	TR. TRIPPED ON 96T, BUS BAR PROTECTION.
42	22.06.10	14.50	220KV BAMNAULI – NARAINA CKT-I & II	22.06.10	15.07	BOTH CKTS. TRIPPED ON UNDER VOLTAGE, 86BV, 186A&B AT BAMNAULI (UNDER VOLTAGE LOAD SHEDDING)
43	22.06.10	14.50	220KV BAMNAULI – NAJAFGARH CKT-I & II	22.06.10	15.09	BOTH CKT. TRIPPED ON UNDER VOLTAGE, 86BV, 186A&B AT BAMNAULI (UNDER VOLTAGE LOAD SHEDDING).
44	23.06.10	22.30	66/11KV 20MVA PR. TR.-III AT PAPPANKALAN-I	23.06.10	22.45	TR. TRIPPED ON `Y' PHASE O/C, 86
45	24.06.10	16.25	220/33KV 100MVA PR. TR.-I AT SHALIMAR BAGH	24.06.10	19.07	TR. TRIPPED ON 86, O/C `B' PHASE, 51C ALONG WITH 33KV I/C-I WHICH TRIPPED ON O/C `R&B' PHASE, 86.
46	26.06.10	02.50	33/11KV 16MVA PR. TR.-II AT SUBZI MANDI	26.06.10	10.42	TR. TRIPPED ON 86 INDICATION
47	26.06.10	03.46	400KV BAWANA – HISSAR CKT-I	26.06.10	07.03	CKT. TRIPPED ON DIST PROT `B' PHASE ZONE-I, 186A&B AT BAWANA.
48	26.06.10	03.46	400KV BAWANA – ABDULLAPUR CKT-I & II	26.06.10	05.30	CKT. TRIPPED ON 186. 400KV BUS BAR PROTECTION OPERATED AT BAWANA
49	26.06.10	03.46	400KV BAMNAULI – BAWANA CKT-II	26.06.10	05.18	CKT. TRIPPED ON 186. 400KV BUS BAR PROTECTION OPERATED AT BAWANA
50	26.06.10	03.46	400KV BAWANA – BAHADURGARH CKT.	26.06.10	05.15	CKT. TRIPPED ON 186. 400KV BUS BAR PROTECTION OPERATED AT BAWANA
51	26.06.10	03.46	400KV MANDOLA – BAWANA CKT-I & II	26.06.10	05.22	BOTH CKT. TRIPPED ON 186. 400KV BUS BAR PROT OPERATED AT BAWANA. CKT-I & II CHARGED AT 05.17HRS. AND 05.22HRS RESPECTIVELY.
52	26.06.10	03.46	400/220KV 315MVA ICT-I, II & III AT BAWANA	26.06.10	05.35	400KV BUS BAR PROTECTION OPERATED AT BAWANA. ICT-I, II & III CHARGED AT 05.06HRS, 05.35HRS AND 05.17HRS RESPECTIVELY.

SLNO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
53	26.06.10	03.46	220/66KV 100MVA PR. TR. AT BAWANA	26.06.10	05.08	400KV BUS BAR PROTECTION OPERATED AT BAWANA
54	28.06.10	16.33	220/33KV 50MVA PR. TR.-II AT PATPARGANJ	28.06.10	22.35	TR. TRIPPED ON 86REFLV ALONG WITH 33KV I/C-I, II & IV. 33KV I/C-I & II TRIPPED WITHOUT INDICATION AND 33KV I/C-IV TRIPPED ON 86, O/C `R' PHASE.
55	28.06.10	18.30	220KV PRAGATI – SARITA VIHAR CKT	28.06.10	18.52	CKT. TRIPPED ON DIST PROT `B' PHASE ZONE-I, 186A&B AT SARITA VIHAR AND ON DIST PROT `ABC' PHASE ZONE-I, 80, 186 AT PRAGATI.
56	30.06.10	08.50	33/11KV 16MVA PR. TR.-II AT SUBZI MANDI	30.06.10	09.58	TR. TRIPPED ON 86, 87 ALONG WITH 11KV I/C-II WHICH TRIPPED WITHOUT INDICATION.

19.4 DETAILS OF 400/220KV BREAKDOWN/TRIPPINGS OCCURRED IN DTL SYSTEM DURING THE MONTH JULY -2010

SLNO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
01	01.07.10	18.30	220/33KV 50MVA PR. TR.-II AT PATPARGANJ	01.07.10	21.15	TR. TRIPPED ON E/F, 86 ALONG WITH ITC 33KV I/C-II WHICH TRIPPED WITHOUT INDICATION.
02	02.07.10	09.45	66/11KV 20MVA PR. TR.-I AT OKHLA	02.01.10	20.03	TR. TRIPPED ALONGWITH ITS 11KV I/C-I ON 86
03	02.07.10	18.35	220KV SARITA VIHAR – MAHARANI BAGH CKT	02.07.10	19.09	CKT. TRIPPED ON DIST PROT ZONE-I AT MAHARANI BAGH AND ON DIST PROT `ABC' PHASE ZONE-I, 186A&B AT SARITA VIHAR.
04	04.07.10	02.57	220/66KV 100MVA PR. TR.-I AT PAPPANKALAN-II	04.07.10	03.50	TR. TRIPPED ON LBB PROT, 86 ALONG WITH 66KV I/C-I WHICH TRIPPED ON E/F, 86.
05	04.07.10	04.32	220/66KV 100MVA PR. TR.-II AT KANJHAWALA	04.07.10	15.01	TR. TIPPED ON DIFFERENTIAL ALONG WITH ITS 66KV I/C-II WHICH TRIPPED ON INTER TRIPPING
06	04.07.10	07.47	33/11KV 16MVA PR. TR.-I AT SUBZI MANDI	04.07.10	13.15	TR. TRIPPED ON 86, 30A.
07	04.07.10	09.20	220/66KV 100MVA PR. TR.-II AT VASANT KUNJ	11.07.10	19.50	TR. TRIPPED ON 86, 30D, LOW OIL FLOW ALARM.
08	04.07.10	14.52	220KV PATPARGANJ – GEETA COLONY CKT-I	04.07.10	15.09	CKT. TRIPPED ON ACTIVE GROUP-I, DIST PROT ZONE-I `ABC''PHASE AT PATPARGANJ AND ON MAIN-I : ACTIVE GROUP-I, DIST PROT ZONE-I `ABC' PHASE, 27, MAIN-II : 30E, 86, DIST PROT ZONE-I `ABC' PHASE AT GEETA COLONY
09	04.07.10	19.35	220/33KV 100MVA PR. TR.-II AT PARK STREET	04.07.10	20.10	TR. TRIPPED ON O/C, 51N, 86BB ALONG WITH ITS 33KV I/C WHICH TRIPPED WITHOUT INDICATION.
10	04.07.10	21.28	220KV PRAGATI – IP CKT-I & II	05.07.10	00.10	FOLLOWING TRIPPING OCCURRED : AT PRAGATI : IP CKT-I : DIST PROT ZONE-I, IP CKT-II : DIST PROT ZONE-I, `C' PHASE, ACTIVE GR.-I AT IP : PRAGATI CKT-I : DIST PROT. ZONE-I PRAGATI CKT-II : NO TRIPPING CKT.-I & II CHARGED AT 21.33HRS. AND CKT-II CHARGED AT 00.10HRS. (05.07.10) FROM IP STATION.
11	04.07.10	21.28	220/33KV 100MVA PR. TR.-I & II AT IP	04.07.10	23.48	BOTH TRANSFORMERS TRIPPED DUE TO 33KV BUS DIFFERENTIAL OPERATION AT IP. TR.-I & II CHARGED AT 23.48HRS AND 21.37HRS. RESPECTIVELY.
12	04.07.10	21.28	220KV PATPARGANJ – IP CKT-II	04.07.10	21.36	CKT. TRIPPED ON ACTIVE GROUP-I, DIST PROT `C' PHASE ZONE-I AT PATPARGANJ AND ON 186ABC AT IP
13	05.07.10	00.33	66/11KV 20MVA PR. TR.-II AT WAZIRABAD	05.07.10	02.19	TR. TRIPPED ON OLTC BUCHLOZ ALONG WITH ITS 11KV I/C-III WHICH TRIPPED WITHOUT INDICATION.

SLNO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
14	05.07.10	07.33	33/11KV 16MVA PR. TR. AT PATPARGANJ	05.07.10	14.45	TR. TRIPPED ON 86, O/C R&B PHASE ALONG WITH ITS 11KV I/C WHICH TRIPPED ON O/C `R&B' PHASE.
15	05.07.10	09.50	220/33KV 100MVA PR. TR.-III AT IP	05.07.10	12.03	TR. TRIPPED ON 86, ABC AUX RELAY ON 220KV SIDE ALONG WITH ITS 33KV I/C WHICH TRIPPED ON 86.
16	05.07.10	17.42	220/66KV 100MVA PR. TR.-I & III AT MEHRAULI	05.07.10	18.15	100MVA PR. TR.-I & III TRIPPED WITH OUT INDICATION. 66KV I/C-I, II & III ALSO TRIPPED WITHOUT INDICATION. JUMPER OF 66KV C-DOT CKT-II MELTTED AT 66KV BUS-I. 100MVA PR. TR.-I & III CHARGED AT 18.15HRS.
17	05.07.10	20.02	33/11KV 16MVA PR. TR.-II AT SUBZI MANDI	05.07.10	20.08	TR. TRIPPED ON E/F, O/C A`R' PHASE.
18	05.07.10	21.15	33/11KV 16MVA PR. TR.-II AT SUBZI MANDI	05.07.10	21.35	TR. TRIPPED ON 86, 87R.
19	06.07.10	07.23	220/66KV 160MVA PR. TR. AT PRAGATI	06.07.10	08.40	TR. TRIPPED ON 30A, BUCHLOZ, 86.
20	06.07.10	11.42	220KV SHALIMAR BAGH – ROHINI CKT-I	06.07.10	12.27	CKT. TRIPPED ON 186A, 186B AT ROHINI. CKT. TRIED TO CLOSE AT 11.48HRS. CKT. CLOSED ON NO LOAD. CKT. AGAIN TRIPPED WHEN 66KV ROHINI-IV CKT-I TRIED TO CLOSE. CKT. FINALLY CHARGED AT 12.27HRS.
21	06.07.10	15.53	220/33KV 100MVA PR. TR.-I AT PATPARGANJ	06.07.10	16.08	TR.TRIPPED ON 86 ALONG WITH ITS 33KV I/C-I WHICH ALSO TRIPPED ON 86.
22	06.07.10	16.41	220KV MEHRAULI – VASANT KUNJ CKT-II	06.07.10	17.04	CKT. TRIPPED ON DIST PROT `C' PHASE ZONE-II AT MEHRAULI. NO TRIPPING AT VASANT KUNJ.
23	06.07.10	17.38	220KV BAMNAULI – PAPPANKALAN-I CKT-II	06.07.10	17.47	CKT. TRIPPED ON DISTTANCE VT FUSE FAIL, CB POLE DISCREPANCY AT PAPPANKALAN-I. NO TRIPPING AT BAMNAULI.
24	06.07.10	21.47	220KV BAMNAULI – PAPPANKALAN-I CKT-II	06.07.10	21.57	CKT. TRIPPED ON POLE DISCREPANCY AT PAPPANKALAN-I. NO TRIPPING AT BAMNAULI
25	06.07.10	22.30	220KV BAMNAULI – PAPPANKALAN-I CKT-II	07.07.10	01.32	CKT. TRIPPED ON POLE DISCREPANCY AT PAPPANKALAN-I. NO TRIPPING AT BAMNAULI
26	07.07.10	08.10	2220KV BAMNAULI – PAPPANKALAN-I CKT-II	07.07.10	12.25	CKT. TRIPPED ON POLE DISCREPANCY AT PAPPANKALAN-I. NO TRIPPING AT BAMNAULI
27	07.07.10	18.54	2220KV BAMNAULI – PAPPANKALAN-I CKT-II	07.07.10	19.02	CKT. TRIPPED ON POLE DISCREPANCY AT PAPPANKALAN-I. NO TRIPPING AT BAMNAULI
28	07.07.10	20.15	2220KV BAMNAULI – PAPPANKALAN-I CKT-II	08.07.10	09.55	CKT. TRIPPED ON POLE DISCREPANCY AT PAPPANKALAN-I. NO TRIPPING AT BAMNAULI
29	07.07.10	06.45	220KV BAMNAULI – NARAINA CKT-I	07.07.10	07.33	CKT. TRIPPED ON DIST PROT `B' PHASE ZONE-I 186A&B AT BAMNAULI. NO TRIPPING AT NARAINA

SLNO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
30	08.07.10	13.24	220KV NARELA – ROHTAK ROAD CKT-II	08.07.10	13.53	CKT. TRIPPED ON DIST PROT `ABC' PHASE ZONE-I AT NARELA.
31	08.07.10	14.53	220/66KV 160MVA PR. TR. AT PRAGATI	08.07.10	19.25	TR. TRIPPED ON BUCHLOZ, 30A, 86K, 86
32	09.07.10	07.57	220KV BTPS – NOIDA – GAZIPUR CKT.	09.07.10	08.50	CKT. TRIPPED ON E/F AT BTPS. NO TRIPPING AT GAZIPUR
33	09.07.10	15.42	220KV BAWANA – DSIDC BAWANA CKT-I	10.07.10	03.19	CKT. TRIPPED ON DIST PROT `B&C' PHASE ZONE-I, 21XR1, 21XY1, 21XYB1, AT BAWANA. `C' PHASE CONDUCTOR SNAPPED
34	09.07.10	17.45	220/66KV 100MVA PR. TR.-I AT OKHLA	09.07.10	20.45	TR. TRIPPED ON 86, 30E ALONG WITH 66KV I/C-I & II. 66KV I/C-I TRIPPED WITHOUT INDICATION AND 66KV I/C-II TRIPPED ON 51CX, O/C. 66KV I/C-I & II CHARGED AT 20.45HRS. AND 17.57HRS. RESPECTIVELY.
35	10.07.10	15.45	220KV WAZIRABAD – GEETA COLONY CKT-I & II	10.07.10	17.20	FOLLOWING TRIPPINGS OCCURRED : **AT WAZIRABAD :** 220KV GEETA COLONY CKT-I : NO TRIPPING 220KV GEETA COLONY CKT-II : GENERAL TRIP, DIST PROT `RYB' PHASE, **AT GEETA COLONY :** 220KV WAZIRABAD CKT-I : ACTIVE GROUP-I, DIST PROT `ABC' PHASE ZONE-II 220KV WAZIRABD CKT-II : NO TRIPPING CKT.-I & II CLOSED AT 16.24HRS. AND 17.20HRS RESPECTIVELY.
36	10.07.10	15.45	220/66KV 100MVA PR. TR.-III AT WAZIRABAD	10.07.10	16.08	TR. TRIPPED ON E/F.
37	12.07.10	18.17	220KV PANIPAT – NARELA CKT-III	12.07.10	11.17	TR. TRIPPED ON O/C, E/F AT NARELA.
38	12.07.10	18.49	220KV BAWANA – ROHINI CKT-II	12.07.10	15.50	CKT. TRIPPED ON DIST PROT `B' PHASE ZONE-II AT BAWANA.
39	12.07.10	18.48	220KV SHALIMAR BAGH – ROHINI CKT-I	12.07.10	20.30	CKT. TRIPPED ON DIST PROT SOTF, 186A, 186B, AUTO RECLOSE AT ROHINI.
40	12.07.10	19.08	220/66KV 100MVA PR. TR. AT BAWANA	12.07.10	20.23	TR. TRIPPED ON 86A, 86B, BUCHLOZ RELAY.
41	12.07.10	19.40	220/33KV 100MVA PR. TR-III AT WAZIRABAD	13.07.10	03.42	TR. TRIPPED WITHOUT INDICATION.
42	12.07.10	20.30	220/66KV 100MVA PR. TR-I AT KANJHAWALA	12.07.10	22.02	TR. TRIPPED WITHOUT ALARM ON TRIP CKT. FAULTY, 195Y&B.
43	12.07.10	21.53	220KV KANJHAWALA – NAJAFGARH CKT	13.07.10	16.51	CKT TRIPPED ON DIST PROT ABC' PH, 186 AT NAJAFGARH AND ON DIST PROT `RYB' PHASE AT KANJHAWALA.
44	12.07.10	21.50	220KV BAWANA – NAJAFGARH CKT.	12.07.10	22.00	CKT. TRIPPED ON 186 AT NAJAFGARH.
45	12.07.10	21.50	220/66KV 100MVA PR. TR-II AT KANJHAWALA	13.07.10	12.55	TR. TRIPPED ON DIFFERENTIAL.

SLNO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
46	13.07.10	18.24	220KV WAZIRABAD – GEETA COLONY CKT-I & II	13.07.10	22.48	DETAILED REPORT IS AVAILABLE AT SR. NO. **A**
47	14.07.10	07.05	400KV BAMNAULI – BALLABHGARH CKT-I & II	14.07.10	07.15	BOTH CKT. TRIPPED ON DIST PROT `A&B', 295BC, 186 AT BAMNAULI.
48	14.07.10	08.55	220/66KV 100MVA PR. TR. AT BAWANA	14.07.10	12.43	TR. TIPPED ON 86A, 86, 30A, BUCHLOZ ALONG WITH 66KV I/C WHICH TRIPPED WITHOUT INDICATION.
49	14.07.10	16.54	220KV BAWANA – KANJHAWALA CKT.	14.07.10	17.10	CKT. TRIPPED ON PT FUSE FAILURE AT KANJHAWALA.
50	14.07.10	17.29	220KV BTPS – MEHRAULI CKT-I	14.07.10	17.40	CKT. TRIPPED ON DIST PROT ZONE-I AT MEHRAULI AND ON `C' PHASE E/F AT BTPS.
51	14.07.10	19.05	220KV WAZIRABAD – GEETA COLONY CKT-I	14.07.10	19.21	CKT. TRIPPED ON DIST PROT `RYB' PHASE ZONE-II AT WAZIRABAD. NO TRIPPING AT GEETA COLONY
52	14.07.10	19.33	220KV WAZIRABAD – GEETA COLONY CKT-I	14.07.10	20.07	CKT. TRIPPED ON DIST PROT `RYB' PHASE ZONE-II AT WAZIRABAD. NO TRIPPING AT GEETA COLONY
53	15.07.10	18.45	66/11KV 20MVA PR. TR.-II AT PAPPANKALAN-II	16.07.10	08.10	TR. TRIPPED ON LBB PROTECTION, LLO `B'PHASE.
54	15.07.10	21.30	66/11KV 20MVA PR. TR.-II AT NAJAFGARH	15.07.10	21.40	TR. TRIPPED ON 51CX, 86.
55	16.07.10	04.32	220/33KV 100MVA PR. TR.-I AT SUBZI MANDI	16.07.10	08.10	TR. TRIPPED ON 87 DIFFERENTIAL, 86, 64RLV
56	16.07.10	17.52	220KV MANDOLA – WAZIRABAD CKT-I	16.07.10	18.40	CKT. TRIPPED ON DIST PROT `B' PHASE ZONE-I, 186 AT MANDOLA AND ON RXME18, DIST PROT `Y&B' PHASE ZONE-I AT WAZIRABAD.
57	17.07.10	02.53	400KV BAMNAULI – BAWANA CKT-I	17.07.10	03.16	CKT. TRIPPED ON MAIN-I & II : DIST PROT `C' PHASE ZONE-I AT BAWANA ON CN 186AB AT BAMNAULI (BREAKER NO-452)
58	18.07.10	18.04	220KV GEETA COLONY – PATPARGANJ CKT-I	18.07.10	18.16	CKT. TRIPPED ON MAIN-I : ACTIVE GROUP-I, DIST PROT `ABC"PHASE ZONE-I, MAIN-II : DIST PROT `ABC' PHASE ZONE-I, 27RYB, 86, 30E AT GEETA COLONY. NO TRIPPING AT PATPARGANJ.
59	19.07.10	09.15	220KV GEETA COLONY – WAZIRABAD CKT-II	19.07.10	15.03	CKT. TRIPPED ON RXME18, DIST PROT `RYB' PHASE, ZONE-I AT WAZIRABAD AND ON ACTIVE GROUP-I, DIST PROT `ABC' PHASE ZONE-II AT GEETA COLONY.
60	19.07.10	21.36	220/66KV 100MVA PR. TR.-I AT MEHRAULI	18.10.10	15.38	TR. TRIPPED ON 86, 30A, BUCHLOZ, 87 ALONG WITH 66KV I/C-I WHICH TRIPPED ON INTER TRIPPING.
61	20.07.10	15.07	220/66KV 160MVA PR. TR. AT PRAGATI	20.07.10	19.10	TR. TRIPPED ON 30D, OLTC BUCHLOZ, 30E, 30A, 30B, 30C, 86, 195AC, 195BC, 195CC.

SLNO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
62	21.07.10	10.35	VARIOUS TRIPPINGS IN DTL SYSTEM			DETAILED REPORT ENCLOSED.
63	22.07.10	14.01	220/66KV 100MVA PR. TR.-II AT NARELA	22.07.10	14.24	TR. TRIPPED WITHOUT INDICATION ALONG WITH 66KV I/C-II WHICH TRIPPED ON INTER TRIPPING
64	22.07.10	15.10	220/66KV 100MVA PR. TR.-II AT NARELA	22.07.10	15.22	TR. TRIPPED WITHOUT INDICATION ALONG WITH 66KV I/C-II WHICH TRIPPED ON INTER TRIPPING
65	22.07.10	17.30	220KV WAZIRABAD – GEETA COLONY CKT-II	22.07.10	17.37	CKT. TRIPPED ON DIST PROT `RYB' PHASE ZONE-I AT WAZIRABAD.
66	23.07.10	23.43	220KV BTPS – MEHRAULI CKT-II	24.07.10	02.39	CKT. TRIPPED ON E/F ZONE-I AT BTPS. CKT. TRIED TO CLOSE AT 00.10HRS. (24.07.10) BUT DID NOT HOLD AND AGAIN TRIPPED ON DIST PROT `ABC' PHASE, 186A&B, SOTF AT MEHRAULI.
67	25.07.10	12.15	220KV IP – PATPAR GANJ CKT-I & II	25.07.10	18.32	CKT. TRIPPED ON 186, DIST PROT ZONE-I AT PATPAR GANJ AND ON 86, DIRECTIONAL E/F AT IP.
68	25.07.10	15.30	220/33KV 100MVA PR. TR.-I AT SUBZI MANDI	25.07.10	23.58	TR. TRIPPED ON 86, DIFFERENTIAL
69	26.07.10	11.15	220/33KV 100MVA PR. TR-III A OKHLA	26.07.10	12.04	TR. TRIPPED WITHOUT INDICATION.
70	26.07.10	15.13	220KV BAWANA – ROHINI CKT-II	26.07.10	21.24	CKT. TRIPPED ON 186A&B, DIST PROT `A' PH, 186A&B, AUTO RECLOSE LOCK OUT AT BAWANA. NO TRIPPIONG AT ROHINI. `R' PHASE JUMPER DAMAGED OUTSIDE BAWANA GRID
71	28.07.10	07.17	220/66KV 100MVA PR. TR.-I AT PATPARGANJ	28.07.10	12.12	TR. TRIPPED ON 86, O/C 51AX ALONG WITH 66KV I/C-I WHICH TRIPPED ON `R' PHASE O/C. 66KV BUS COUPLER ALSO TRIPPED ON `R' PHASE O/C
72	29.07.10	02.23	220KV BAWANA – KANJHAWALA CKT.	29.07.10	09.14	CKT. TRIPPED ON E/F, O/C AT KANJHAWALA.
73	29.07.10	02.23	220KV BAWANA – NAJAFGARH CKT.	29.07.10	02.51	CKT. TRIPPED ON DIST PROT `C' PHASE ZONE-I AT BAWANA. NO TRIPPING AT NAJAFGARH.
74	29.07.10	02.23	220/66KV 100MVA PR. TR-I AT KANAJHAWALA	29.07.10	10.02	TR. TRIPPED ON ABB BACK UP RELAY.
75	29.07.10	02.23	220KV KANJHAWALA – NAJAFGARH CKT.	29.07.10	03.27	CKT. TRIPPED ON AIR PRESSURE LOW INDICATION.
76	29.07.10	10.30	220KV BAMNAULI – MEHRAULI CKT-I	30.07.10	19.26	CKT. TRIPPED ON DIST PROT `B&C' PH. 186A&B AT BAMNAULI & ON DIST PROT ABC' PHASE ZONE-I AT MEHRAULI.
77	29.07.10	10.30	220KV BAMNAULI – MEHRAULI CKT-II	29.07.10	10.37	CKT. TRIPPED ON 186 AT MEHRAULI. NO TRIPPING AT BAMNAULI.
78	29.07.10	11.00	220KV MANDOLA – GOPALPUR CKT-I	29.07.10	11.40	CKT. TRIPPED ON DIST PROT `RYB' PH ZONE-I, 86, 186A&B AT MANDOLA AND ON M2-RY TRIP `R' PHASE TO GROUND AT GOPALPUR
79	29.07.10	11.05	220KV MEHRAULI – VASANT KUNJ CKT-II	29.07.10	11.23	CKT. TRIPPED ON DIST PROT `C' PH, 186 A&B AT MEHRAULI AND ON DIST PROT `C PH, 186A&B, 295CB AT VASANT KUNJ

SLNO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
80	30.07.10	08.38	220/66KV 100MVA PR. TR. AT BAWANA	30.07.10	13.24	TR. TRIPPED ON TROUBLE TRIP, 86A / 86B, 30MPREVAL ALONG WITH ITS 66KV I/C WHICH TRIPPED WITHOUT INDICATION.
81	30.07.10	17.38	220KV KANJHAWALA – NAJAFGARH CKT.	30.07.10	17.40	CKT. TRIPPED MAIN-I & II DIST PROT AT KANJHAWALA.
82	30.07.10	18.37	220KV GOPALPUR – SUBZI MANDI CKT-I	30.07.10	18.55	CKT. TRIPPED ON DIST PROT `RYB' PHASE ZONE-I AT GOPALPUR. NO TRIPPING AT SUBZI MANDI.
86	31.07.10	10.17	220KV KANJHAWALA – NAJAFGARH CKT.	31.07.10	10.24	CKT. TRIPPED ON DIST PROT.

A) Report on Grid Incident on 13.07.2010 in Delhi system.

The following trippings occurred in Delhi system on 13.07.2010 at 18.24hrs. due to Bus differential operation at Geeta Colony due to kite thread :-

(a) 220kV South of Wazirabad-II Stn

S. No	Name of the feeder/ Transformer tripped	Relay indications	Time of tripping in Hrs.	Time of Restoration in Hrs.	Remarks
01	220kV Geeta Colony Ckt-I	Dist. Prot zone-II	18.24	18.40	
02	220kV Geeta Colony Ckt-II	No tripping	18.31	22.05	

(b) 220kV Geeta Colony

S. No	Name of the feeder/ Transformer tripped	Relay indications	Time of tripping in Hrs.	Time of Restoration in Hrs.	Remarks
01	220kV Patparganj Ckt-I	Manually made off	18.31	18.40	Kite thread found Bus-I & II
02	220kV Patparganj Ckt-II	Bus bar protection	18.31	22.40	
03	220kV Wazirabad Ckt-I	Dist Prot. ABC phase Zone-I, Dist. 203.7 mtr	18.24	18.40	
04	220kV Wazirabad Ckt-II	Dist Prot Zone-IV, ABC Ph, dist 59.04 mtr	18.31	22.05	
05	220/33kV 100MVA Pr. Tr.-II	96X	18.31	22.28	

(c) 220kV Patparganj

S. No	Name of the feeder/ Transformer tripped	Relay indications	Time of tripping in Hrs.	Time of Restoration in Hrs.	Remarks
01	220kV Geeta Colony Ckt-I	186	18.24	18.53	
02	220kV Geeta Colony Ckt-II22.47	186	18.31	22.40	
03	I.P. Ckt. I	Manually made off	18.31	22.47	
04	IP Ckt-II	Manually made off	18.31	20.02	
05	66kV Vivek Vihar Ckt-II, 66kV GH-I Ckt and 66kV Akshardham Ckt.	Under frequency	18.31	19.03	Load shedding : 16MW
06	33kV Preet Vihar ckt. 33kV Shakarpur Ckt	Under frequency	18.31	18.55	Load shedding : 24MW
07	11kV Load	Under frequency	18.31	18.55	Load shedding : 14MW

(d) 220kV IP Stn

S. No	Name of the feeder/ Transformer tripped	Relay indications	Time of tripping in Hrs.	Time of Restoration in Hrs.	Remarks
01	220kV Patparganj Ckt-I	Supply failed	18.31	18.40	
02	220kV Patparganj Ckt-II	Supply failed	18.31	18.41	
03	220kV I.P.Extn. Ckt-I	Supply failed	18.31	18.40	
04	220kV I.P.Extn. Ckt-I	Supply failed	18.31	18.40	
05	33kV Bay-24	Under frequency	18.31	19.18	09MW load affected
06	33kV Bay-30	Under frequency	18.31	19.52	11MW load affected
07	33kV Bay-37	Under frequency	18.31	18.41	14MW load affected
08	33kV Bay-25	Under frequency	18.31	19.28	14MW load affected

(e) 220kV RPH

S. No	Name of the feeder/ Transformer tripped	Relay indications	Time of tripping in Hrs.	Time of Restoration in Hrs.	Remarks
01	33kV Bay-1, 2, 5, 6,12, 13, 16, 17,18, 19	Supply failed	18.31	19.18	88MW load affected

System configuration during the incident

At the time of incident, RPH, Pragati (Unit-1 & STG) were connected to Mandola side through 220kV IP Ext – IP – Patparganj – Geeta Colony – Wazirabad – Mandola Ckts. GT Station and Pragati (Unit-II) were connected to BTPS side through 220kV Pragati – Maharani Bagh - Sarita Vihar – BTPS Ckts.

The tripping of 220kV Wazirabad –Geeta Colony Ckt 1 & II at Geeta Colony end on Bus Bar Protection due to kete thread and at Patparganj Ckt-II at GEeta colony end resulting into islanding of generating units of RPH (RPH Unit-II was under shut-down) and Pragati Unit-I & its STG from the grid and its collapse.

The load generation position prior to the grid incident was as under:-

Sub-Station	Connected Load in MW	Generation position prior to the incident in MW
Patparganj	130	Nil
IP	179	Nil
RPH	88	40
Pragati	NIL	198
Geeta Colony	82	Nil
Total	**454**	**238**

The generating units affected were normalized as under:

Generating Station Name	Unit No.	Time of trippings	Time of synchronization	Generation prior to the incident
RPH	1	18.33	20.21	40
Pragati	1	18.29	19.10	91
	STG	18.29	19.25	107

Load affected due to the above tripping is as under:-

Duration in hrs.		Quantum in MW	Grid	Name of the Ckt.
From	**To**			
18.31	19.18	88	**RPH**	33kV Bay-1,2,5,6,12,13,16,17,18,19
18.31	18.41	66	**IP**	33kV Bay-2,6,10, 28,34,37, 38, 42
18.31	19.15	11		33kV Bay- 1, 3
18.31	19.16	11		33kV Bay –29, 33
18.31	19.18	66		33kV Bay –5,7,9,13,17,24
18.31	19.28	14		33kV Bay –25
18.31	19.52	11		33kV Bay –30
18.31	18.55	68	**Patparganj**	33kV Preet Vihar Ckt., 33kV Guru Angad Nagar ckt. I&II, 33kV CBD Shahdra Ckt, 33kV Shakarpur Ckt. ,Twin Tower, Mother Dairy & Geeta Colony, 33kV Karkardooma Ckts
18.31	19.03	48		66kV Akshardham Ckt. , 66kV Group Housing –I Ckt. , 66kV Khichripur Ckt. 66kV Vivek Vihar ckt-II
18.31	18.55	14		11kV Load
18.31	20.10	82	**Geeta Colony**	Entire load of 33kV

ii) Report on Grid Incident on 21.07.2010 in Delhi system at Bawana.

Time in Hrs.	Details
10.35	Heavy sound observed on 400kV `Y' Phase CT of ICT-IV and 400kV Bus Bar-I and II operated. All the breakers of Bus-I and Bus-II tripped except 400kV CB-152 Bamnauli ckt-I. CVT available on Mandola ckt-I & II
10.46	400kV Bus-I charged through CB-1552 of Mandola Ckt-I
10.48	400kV CB 1752 and 1852 closed Mandola Ckt-II
10.50	220kV Najafgarh Ckt-I & II, 220kV Rohini Ckt-I& II, 220kV Shalimar Bagh Ckt-I & II, I/C-I, II & III switched off
10.52	ICT-I charged through CB-2052
10.54	ICT-II charged through CB-1052
10.54	ICT-III charged through CB-752
10.55	I/C-I, II & III closed through CB-1352, 552 and 352 respectively
10.57	400kV Bamnauli Ckt-II charged through CB-352 and 452
10.58	220kV Rohini Ckt-I charged through CB-752
10.58	220kV Rohini Ckt-II charged through CB-652
10.58	400kV Bamnauli Ckt-I CB-252 close (152 already in close position)
10.59	220kV Shalimar Bagh Ckt-I & II charged through CB-1552 & 1652
10.59	400kV Bahadurgarh Ckt charged through CB-552
10.59	400kV Hissar Ckt charged through CB-852
11.00	220kV Najafgarh Ckt-I charged through CB-152
11.00	220kV Najafgarh Ckt-II charged through CB-252
11.20	400kV Abdullapur Ckt-I Charged through CB-1352 & 1452
11.04	400kV Abdullapur Ckt-II charged through Cb-1152 & 1252

19.5 DETAILS OF 400/220KV BREAKDOWN/TRIPPINGS OCCURRED IN DTL SYSTEM DURING THE MONTH AUGUST – 2010

SLNO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
01	01.08.10	03.09	33/11KV 16MVA PR. TR.-II AT SUBZI MANDI	01.08.10	13.37	TR. TRIPPED ON 86, 87, 95ABC.
02	01.08.10	19.41	220/33KV 100MVA PR. TR.-I AT LODHI ROAD	01.08.10	22.36	TR TRIPPED WITHOUT INDICATION ALOG WITH 33KV I/C-I WHICH ALSO TRIPPED WITHOUT INDICATION.
03	02.08.10	03.24	33/11KV 16MVA PR. TR.-I AT SUBZI MANDI	02.08.10	03.40	TR. TRIPPED ON O/C `R' PHASE, 86 ALONG WITH 11KV I/C-I WHICH TRIPPED ON O/C `R&B' PHASE.
04	03.08.10	21.30	220KV BAMNAULI – NARAINA CKT-I	03.08.10	21.55	CKT. TRIPPED ON DIST. PROT. `B&C' PHASE, 186A&B AT BAMNAULI. NO TRIPPING AT NARAINA.
05	06.08.10	16.20	220/33KV 100MVA PR. TR.-I AT GEETA COLONY	06.08.10	20.48	TR. TRIPPED ON 86, BUCHLOZ, 30E ALONG WITH 33KV I/C-I WHICH TRIPPED ON 30, DIRECTIONAL O/C, E/F.
06	07.08.10	18.49	220KV WAZIRABAD – GEETA COLONY CKT-I& II	07.08.10	18.59	THE FOLLOWING TRIPPINGS OCCURRED :- **AT GEETA COLONY :** WAZIRABAD CKT-I : DIST PROT `ABC' PHASE ZONE-I WAZIRABAD CKT-II : DIST PROT `BC' PHASE ZONE-I **AT WAZIRABAD :** GEETA OLONY CKT-I : DIST PROT `RYB' PHASE ZONE-I GEETA COLONY CKT-II : NO TRIPIPNG
07	07.08.10	18.30	220/66KV 100MVA PR. TR.-IV AT NAJAFGARH	07.08.10	18.50	TR. TRIPPED ON 86, BUCHLOZ.
08	08.08.10	10.45	220/33KV 50MVA PR. TR.-I AT OKHLA	08.08.10	12.40	TR. TRIPPED ON 87, 95C, 64RLV, 86 ALONG WITH 33KV I/C-I WICH TRIPPED ON 86
09	08.08.10	19.30	220/33KV 100MVA PR. TR-IV AT PATPARGANJ	08.08.10	20.40	TR. TRIPPED ON 86A, E/F, SUPERVISION ALONG WITH 33KV I/C-IV WHICH TRIPPED ON CB, 86.

SLNO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
10	10.08.10	19.43	220KV WAZIRABAD – GEETA COLONY CKT-I	10.08.10	19.58	CKT. TRIPPED ON DIST PROT `RYB' PHASE, ZONE-I AT WAZIRABAD AND ON MAIN-I : DIST PROT `ABC' PHASE AND MAIN-II : DIST PROT `AB' PHASE ZONE-I AT GEETA COLONY
11	11.08.10	15.31	220/66KV 100MVA PR. TR -II AT KANJHAWALA	11.08.10	20.04	TR. TRIPPED ON 86A, DIFFERENTIAL ``B' PHASE ALONG WITH 220KV BUS COUPLER WHICH TRIPPED ON 86, E/F.
12	11.08.10	16.52	220/33KV 100MVA PR. TR. -I AT GEETA COLONY	11.08.10	18.24	TR. TRIPPED ON 86, 30E ALONG WITH 33KV I/C-I WHICH TRIPPED ON O/C, E/F, 30.
13	11.08.10	17.25	220/33KV 100MVA PR. TR.-II AT PARK STREET	11.08.10	18.47	TR. TRIPPED ON O/C `R' PHASE, 51A, 86A, 86B, E/F.
14	11.08.10	17.25	66/33KV 30MVA PR. TR.-I & II AT PARK STREET	11.08.10	18.53	TR.-I TRIPPED ON O/C `R' PHASE, 86 AND TR.-II TRIPPED ON 86, REF, 64RLV ALONG WITH 33V I/-I & II. BOTH 33KV I/CS TRIPPED WITHOUT INDICATION.
15	11.08.10	18.52	400/220KV 315MVA ICT-IV AT BAWANA	12.08.10	11.58	ICT-IV TRIPPED ON MAIN : 86, TRIP RELAY, AUX OLTC, BUCHLOZ ABC PHASE, 30F, CTR 86 GRA FACIA : TCB AUTO RECLOSE LOCK OUT, 186A, 186B. `A' PHASE 195 ACTC-I, `A' PHASE 295AC TC-2, `B' PHASE 195, `B' PHASE 25BC TC-I.
16	12.08.10	12.42	220/33KV 100MVA PR. TR.-I & II AT IP	12.08.10	12.55	TR-I TRIPPED ON 86 AND TR. TRIPPED ON O/C. TR.-I & II CHARGED AT 12.48HRS. AND 12.55HRS RESPECTIVELY.
17	12.08.10	15.55	220KV BTPS – OKHLA CKT-I & II	12.08.10	16.16	BUS BAR PROTECTION OPERATED AT OKHLA. NO TRIPPING AT BTPS. CKT-I & II CHARGED AT 15.35HRS. AND 16.16HRS RESPECTIVELY.
18	12.08.10	15.55	220KV BTPS – GAZIPUR CKT.	12.08.10	16.43	BUS BAR PROTECTION OPERATED AT BTPS.
19	12.08.10	17.16	220KV BTPS – MEHRAULI CKT-II	12.08.10	22.13	BUS BAR PROTECTION OPERATED AT BTPS.
20	12.08.10	15.55	220KV BTPS – SARITA VIHAR CKT-II	12.08.10	16.03	BUS BAR PROTECTION OPERATED AT BTPS.
21	13.08.10	10.05	220KV PANIPAT – NARELA CKT-II	13.08.10	17.51	CKT. TRIPPED WITHOUT INDICATION AT NARELA.
22	13.08.10	18.23	220KV BTPS – MEHRAULI CKT-I	13.08.10	18.48	CKT TRIPPED ON DIST PROT `ABC' PHASE ZONE-I AT MEHRAULI.
23	14.08.10	11.26	220/33KV 100MVA PR. TR.-I AT NARAINA	14.08.10	12.29	TR. TRIPPED ON 30J, 30C.
24	14.08.10	14.08	220/33KV 100MVA PR. TR.-IV AT OKHLA	04.09.10	13.00	TR. TRIPPED ON 30A, BUCHLOZ, 86, DIFFERENTIAL `R&Y' PHASE, INSTANTENOUS E/F ALONG WITH 33KV I/C-IV WHICH TRIPPED ON 86.
25	14.08.10	14.15	220/33KV 100MVA PR. TR.-II AT SHALIMAR BAGH	21.08.10	19.31	TR. TRPPED ON 30D, OLTC BUCHLOZ, 30C, OIL TEMP, 86.
26	14.08.10	16.59	220KV PATPARGANJ – GEETA COLONY CKT-I	14.08.10	17.07	CKT. TRIPPED ON ACTIVE GROUP-I, DIST PROT `ABC' PHASE ZONE-I, 27RYB AT GEETA COLONY.

SLNO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
27	14.08.10	19.52	220KV NARELA – ROHTAK ROAD CKT-I & II	14.08.10	20.04	CKT. TRIPPED ON DIST PROT `ABC' PHASE VT FUSE. CKT-I & II CHARGED 20.02HRS & 22.04HRS RESPECTIVELY.
28	15.08.10	07.48	220KV PATPARGANJ – GEETA COLONY CKT-I	15.08.10	08.14	CKT TRIPPED ON ACTIVE GROUP-I, DIST PROT `ABC' PHASE ZONE-I, 27RYB, 30E, 86 AT GEETA COLONY. NO TRIPPING AT PATPARGANJ.
29	15.08.10	08.16	220KV PATPARGANJ – GEETA COLONY CKT-I	15.08.10	17.22	CKT. TRIPPED ON ACTIVE GROUP-I, DIST PROT AT GEETA COLONY. NO TRIPPING AT PATPARGANJ. CKT. TRIED TO CLOSE AT 11.44HRS BUT AGAIN TRIPPED ON SAME INDICATIONS. CKT. FINALLY CHARGED AT 17.22HRS.
30	15.08.10	09.25	220KV NARELA – ROHTAK ROAD CKT-II	15.08.10	09.39	CKT. TRIPPED ON DIST PROT `ABC' PHASE ZONE-I AT NARELA.
31	15.08.10	10.48	220KV WAZIRABAD – GEETA COLONY CKT-I	15.08.10	11.00	CKT. TRIPPED ON DIST PROT `ABC' PHASE ZONE-I AT GEETA COLONY.
32	15.08.10	12.40	220KV MANDOLA – GOPALPUR CKT-I	15.08.10	12.49	CKT. TRIPED ON PHASE TO PHASE TRIPPING AT MANDOLA. NO TRIPPING AT GOPALPUR.
33	15.08.10	13.05	220KV WAZIRABAD – GEETA COLONY CKT-I	15.08.10	13.15	CKT. TRIPPED ON DIST PROT `RYB' PH. ZONE-I AT WAZIRABAD & ON DIST PROT `ABC' PH .ZONE-I AT GEETA COLONY.
34	15.08.10	13.53	220KV WAZIRABAD – GEETA COLONY CKT-I	15.08.10	13.59	CKT. TRIPPED ON DIST PROT `RYB' PH. ZONE-I AT WAZIRABAD AND ON DIST PROT. `ABC' PH.ZONE-I (MAIN-I & II)
35	15.08.10	14.31	220KV NARELA – ROHTAK ROAD CKT-II	15.08.10	14.49	CKT. TRIPPED ON DIST PROT `ABC' PHASE ZONE-I, 186 AT NARELA.
36	15.08.10	14.33	220KV MANDOLA – GOPALPUR CKT.-I	15.08.10	14.46	SUPPLY FAILED FROM MANDOLA. NO TRIPPING AT GOPALPUR.
37	15.08.10	14.33	220KV MANDOLA – WAZIRABAD CKT-III	15.08.10	14.47	CKT. TRIPPED ON RXME18, DIST PROT `RYB' PHASE ZONE-I AT WAZIRABAD.
38	15.08.10	15.03	220KV BAMNAULI – NARAINA CKT-II	15.08.10	15.14	CKT. TRIPPED ON DIST PROT `Y&B' PHASE, 186A&B AT BAMNAULI. NO TRIPPING AT NARAINA.
39	15.08.10	15.16	220KV MANDOLA – GOPALPUR CKT-II	15.08.10	15.30	CKT. TRIPPED ON DIST PROT `Y&B' PH ZONE-II, 86RYB, 186A&B AT GOPALPUR.
40	15.08.10	15.25	220KV BAMNAULI – NARAINA CKT-II	15.08.10	15.45	CKT. TRIPPED ON DIST PROT `Y&B' PHASE, 186A&B AT BAMNAULI.
41	15.08.10	16.48	220KV PANIPAT – NARELA CKT-III	15.08.10	16.58	CKT. TRIPPED ON AUTO RECLOSE LOCK OUT AT NARELA.
42	15.08.10	16.47	220KV MANDOLA – GOPALPUR CKT-II	15.08.10	17.05	CKT. TRIPPED ON `RY' PHASE ZONE-II, 86RYB, 186A&B AT MANDOLA. NO TRIPPING AT GOPALPUR.
43	15.08.10	17.05	220/33KV 100MVA PR. TR.-I AT PATPARGANJ	17.08.10	11.45	TR. TRIPPED ON DIFFERENTIAL.
44	15.08.10	17.15	220KV NARELA – ROHTAK ROAD CKT-II	15.08.10	17.27	CKT. TRIPPED ON DIST PROT `ABC' PHASE ZONE-I, 186 AT NARELA.
45	15.08.10	17.26	220KV BAWANA – ROHINI CKT.-I	15.08.10	17.30	CKT. TRIPPED ON DIST PROT `B&C' PH. AT BAWANA. NO TRIPPING AT ROHINI.

SLNO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
46	15.08.10	18.33	220KV MAHARANI BAGH – PRAGATI CKT.	15.08.10	18.29	NO TRIPPING AT PRAGATI. CKT. TRIPPED WITHOUT INDICATION AT MAHARANI BAGH.
47	15.08.10	18.33	220KV LODHI ROAD - MAHARANI BAGH CKT-I	15.08.10	18.42	CKT. TRIPPED ON DIST PROT `Y' PHASE AT MAHARANI BAGH.
48	16.08.10	05.52	220KV KANJHAWALA – NAJAFGARH CKT.	16.08.10	06.04	CKT. TRIPPED ON 186 AT NAJAFGARH. 220KV BUS COUPLER TRIPPED ON 195ABC & 295ABC, 51N, E/F AT KANJHAWALA.
49	16.08.10	05.52	220KV BAWANA – NAJAFGARH CKT-II	16.08.10	05.58	CKT. TRIPPED ON 186 AT NAJAFGARH.
50	17.08.10	08.04	33/11KV 16MVA PR. TR.-II AT SUBZI MANDI	18.08.10	17.20	TR. TRIPPED ON 86, 87, 51 ALONG WITH ITS 11KV I/C-II WHICH TRIPPED WITHOUT INDIACTION.
51	17.08.10	12.20	66/11KV 20MVA PR. TR.-II AT SARITA VIHAR	17.08.10	16.50	TR. TRIPPED ON BUCHLOZ, 86 ALONG WITH ITS 11KV I/C WHICH TRIPPED ON 86.
52	17.08.10	16.50	220KV PATPARGANJ – IP CKT-II	17.08.10	17.34	CKT. TRIPPED ON DIST PROT `ABC' PH., AUTO RECLOSE LOCK OUT 186 AT IP.
53	18.08.10	06.02	220/33KV 100MVA PR. TR.-I & IV AT PATPARGANJ	18.08.10	06.30	TR.-I TRIPPED ON 86, O/C `R' PHASE, E/F AND TR.-IV TRIPPED ON 86, 51N, E/F. EARTH WIRE REPORTED TO BE FALL ON TRANSFORMER
54	18.08.10	16.58	220KV BAMNAULI – NARAINA CKT-II	19.08.10	15.58	CKT. TRIPPED ON DIST PROT `Y&B' PH. ZONE-II, AUTO RECLOSE LOCK OUT AT BAMNAULI. NO TRIPPING AT NARAINA
55	19.08.10	11.08	220KV BTPS – MEHRAULI CKT-I	19.08.10	12.08	CKT.TRIPPED ON 186 AT MEHRAULI.
56	21.08.10	05.50	220KV MEHRAULI – VASANT KUNJ CKT-II	21.08.10	06.06	CKT. TRIPPED ON DIST PROT `B' PHASE ZONE-II, 186A&B AT MEHRAULI. NO TRIPPING AT VASANT KUNJ.
57	21.08.10	13.10	220KV MEHRAULI – VASANT KUNJ CKT-I	21.08.10	13.15	CKT. TRIPPED ON DIST PROT `C' PHASE ZONE-II, 186A&B AT MEHRAULI. NO TRIPPING AT VASANT KUNJ.
58	21.08.10	14.03	220KV PATPARGANJ – GEETA COLONY CKT-I	21.08.10	14.11	CKT. TRIPPED ON DIST PROT `ABC' PH. ZONE-I AT GEETA COLONY. NO TRIPPING AT PATPARGANJ.
59	21.08.10	14.31	220/33KV 100MVA PR. TR.-III AT OKHLA	21.08.10	18.13	TR. TRIPPED ON TRIP CKT. FAULTY RELAY.
60	21.08.10	17.40	220KV MEHRAULI – VASANT KUNJ CKT-I	21.08.10	17.45	CKT. TRIPPED ON DIST PROT `C' PHASE ZONE-II, 195C AT MEHRAULI. NO TRIPPING AT VASANT KUNJ.
61	22.08.10	15.22	220KV MANDOLA – WAZIRABAD CKT-IV	22.08.10	15.22	CKT. TRIPPED ON DIST PROT `R&Y' PH. ZONE-I AT MANDOLA AND ON RXME18, DIST PROT ZONE-I AT WAZIRABAD.
62	22.08.10	17.00	220/33KV 100MVA PR. TR.-I AT SUBZI MANDI	22.08.10	17.11	TR. TRIPPED ON 64RLV ALONG WITH 33KV I/C-I WHICH TRIPPED ON SUPERVISION RELAY.
63	23.08.10	06.17	220KV MEHRAULI – VASANT KUNJ CKT-I	23.08.10	06.26	CKT. TRIPPED ON DIST PROT `C' PHASE, 186A&B AT MEHRAULI. NO TRIPPING AT VASANT KUNJ.

SLNO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
64	23.08.10	07.09	400KV BAWANA – ABDULLAPUR CKT-II	23.08.10	10.38	CB-1352 AUTO TRIP. CB-1452 TRIPPED ON POLE DISCREPANCY AT BAWANA
65	23.08.10	07.54	220KV MEHRAULI – VASANT KUNJ CKT-I	23.08.10	07.58	CKT. TRIPPED ON DIST PROT `C' PHASE, 186A&B AT MEHRAULI. NO TRIPPING AT VASANTKUNJ
66	23.08.10	11.42	220KV MEHRAULI – VASANT KUNJ CKT-I	23.08.10	11.57	CKT. TRIPPED ON DIST PROT `B' PHASE, 186A&B AT MEHRAULI. NO TRIPPING AT VASANT KUNJ.
67	23.08.10	11.43	400KV BALLABHGARH – BAMNAULI CKT-I & II	23.08.10	12.24	CKT. TRIPPED ON DIST PROT, 186A&B, CN AIDED TRIP, DIST TO FAULT AND CKT-II TRIPPED ON 186A&B, CN ZONE-I & II, 2/50 AT BAMNAULI.
68	23.08.10	19.02	220/33KV 100MVA PR. TR.-I AT SUBZI MANDI	23.08.10	20.15	TR. TRIPPED ON 64RLV, RESTRICTED E/F ON HV SIDE, 86 ALONG WITH 33KV I/C-I WHICH TRIPPED ON 86, AC SUPPLY SUPERVISION RELAY, 80CD.
69	24.08.10	01.43	220/33KV 100MVA PR. TR.-II AT LODHI ROAD	24.08.10	16.30	TR. TRIPPED ON 30A, BUCHLOZ, 30B, 86, 2/50, AUTO RECLOSE, LBB PROTECTION, BUCHLOZ, ALONG WITH 33KV I/C-II.
70	24.08.10	16.50	220KV GOPALPUR – SUBZI MANDI CKT-II	24.08.10	17.19	CKT. TRIPPED ON DIST PROT `Y&B' PHASE ZONE-I AT GOPALPUR. NO TRIPPING AT SUBZI MANDI.
71	25.08.10	09.02	220/33KV 100MVA PR. TR.-I AT SUBZI MANDI	25.08.10	11.40	TR. TRIPPED ON 86, 64RLV, 87T.
72	26.08.10	14.58	400KV BALLABHGARH – BAMNAULI CKT-II	26.08.10	15.05	CKT. TRIPPED ON 186A&B, 85LO AT BAMNAULI.
73	26.08.10	15.12	400KV BALLABHGARH – BAMNAULI CKT-II	26.08.10	15.48	CKT. TRIPPED ON 186A&B, 85LO AT BAMNAULI.
74	26.08.10	15.15	400KV BALLABHGARH – BAMNAULI CKT-I	26.08.10	15.46	CKT. TRIPPED ON 186A&B, CARRIER LOCK OUT, 85LO. AT BAMNAULI.
75	28.08.10	20.06	220/33KV 100MVA PR. TR.-I AT GOPALPUR	29.08.10	15.15	TR. TRIPPED ON 164, 86, E/F ALONG WITH 33KV I/C-I WHICH TRIPPED WITHOUT INDICATION.
76	29.08.10	12.09	220KV SARITA VIHAR – MAHARANI BAGH CKT	29.08.10	12.28	CKT. TRIPPED ON DIST PROT `A' PHASE ZONE-I, 186A&B AT SARITA VIHAR AND ON DIST PROT `R' PHASE ZONE-I AT MAHARANI BAGH.
77	29.08.10	16.00	220KV PAPPANKALA–I BAMNAULI CKT-II	29.08.10	16.53	CKT. TRIPPED ON DIST PROT AT PAPPANKALAN-I. `Y' PHASE PT REPORTED TO BE FLASHED AT BUS-I.
78	29.08.10	17.38	220KV MANDOLA – GOPALPUT CKT-II	29.08.10	18.09	CKT. TRIPPED ON DIST PROT `R&Y' PHASE ZONE-I AT GOPALPUR AND ON DIST PROT, `B' PHASE, 86, 186A&B AT MANDOLA.
79	30.08.10	14.45	220/66KV 100MVA AND 160MVA PR. TR. AT VASANT KUNJ	30.08.10	14.50	100MVA PR. TR.TRIPPED ON 86 AND 160MVA PR. TR. TRIPPED ON 86, 51AY. BOTH 66KV I/C TRIPPED WITHOUT INDICATION. 100MVA PR. TR. CHARGED AT 14.50HRS AND 160MVA PR.TR. CHARGED AT 14.48HRS.

SLNO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
80	30.0810	20.40	220/66KV 160MVA PR. TR. AT VASANT KUNJ	30.08.10	20.58	TR. TRIPPED ON 86, 51AX (O/C) ALONG WITH ITS 66KV I/C WHICH TRIPPED ON INTER TRIPPING.
81	31.08.10	15.56	220KV MANDOLA – WAZIRABAD CKT-I, II, III & IV	31.08.10	16.15	CKT.-I & II TRIPPED ON DIST PROT `Y&B' PHASE ZONE-II AND CKT-II & IV TRIPPED ON DIST PROT `Y&B' ZONE-I, 186A&B, 86 AT MANDOLA. NO TRIPPING AT WAZIRABAD.
82	31.08.10	16.32	220/66KV 100MVA PR. TR.-I & II AT GAZIPUR	31.08.10	16.53	BOTH TRANSFORMERS TRIPPED ON TRIP CKT. FAULTY.
83	31.08.10	1830	220KV WAZIRABAD – GEETA COLONY CKT-I	31.08.10	18.52	CKT. TRIPPED ON DIST PROT `ABC' PHASE AT GEETA COLONY. NO TRIPPING AT WAZIRABAD.
84	31.08.10	18.30	220KV MANDOLA – WAZIRABAD CKT-I & II	31.08.10	18.52	BOTH CKT. TRIPPED ON DIST PROT ZONE-III `R TO N' PHASE, 186A&B, 86RYB AT MANDOLA. NO TRIPPING AT WAZIRABAD.

19.6 DETAILS OF 400/220KV BREAKDOWN/TRIPPINGS OCCURRED IN DTL SYSTEM DURING THE MONTH SEPTEMBER -2010

SLNO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
01	01.09.10	11.10	220KV SARITA VIHAR – MAHARANI BAGH CKT	01.09.10	11.15	CKT. TRIPPED ON DIST PROT `ZONE `A'' AT SARITA VIHAR AND ON DIST PROT, O/C `R' PHASE AT MAHARANI BAGH.
02	01.09.10	11.52	220KV BAMNAULI – MEHRUALI CKT-II	01.09.10	11.59	CKT. TRIPPED ON DIST PROT `B' PH, 186A&B AT BAMN AULI AND ON DIST PROT ZONE-I, 186 AT MEHRAULI
03	01.09.10	13.04	220KV BTPS – MEHRUALI CKT-I	01.09.10	17.48	CKT. TRIPPED ON DIST PROT `A' PHASE ZONE-I, 186A&B AT MEHRUALI AND ON 30C, E/F, 186 AT BTPS. CKT. TRIED TO CLOSE AT 13.48HRS. BUT AGAIN TRIPPED ON SOTF. CKT. FINALLY CHARGED AT 17.48HRS. TREE BRANCHES FOUND ON THE TOWER NO.16 NEAR SULTAPUR.
04	01.09.10	05.37	220/66KV 100MVA PR. TR.-I AT OKHLA	01.09.10	12.50	TR. TRIPPED ON BUCHLOZ, 195AC, 195BC, 195CC, DIFFERENTIAL.
05	02.10.10	18.47	220KV BTPS – OKHLA CKT-I & II	02.09.10	19.16	THE FOLLOWING TRIPPINGS OCCURRED : AT BTPS : 220KV OKHLA CKT-I : 30G, 30A 220KV OKHLA CKT-II: 30BC, 30A, 30G AT OKHLA : 220KV BTPS CKT-I : SUPPLY FAILED. 220KV BTPS CKT-II: DIST PROT. `ABC' PHASE CKT-I & II CHARGED AT 19.05HRS AND 19.16HRS. RESPECTIVELY.
06	02.09.10	23.40	66/11KV 20MVA PR. TR-II AT SARITA VIHAR	03.09.10	09.30	TR. TRIPPED ON 30A (BUCHLOZ), 86, TRANSFORMER TROUBLE.
07	03.09.10	13.26	400KV BAWANA – ABDULLAPUR CKT-II	03.09.10	13.44	BREAKER NO.1352 TRIPPED ON AUTO RECLOSE, AUTO TRIP AND BREAKER NO. 1452 TRIPPED ON CARRIER SIGNAL.

SLNO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
08	05.09.10	07.32	220/33KV 100MVA PR. TR.-II AT SHALIMAR BAGH	05.09.10	17.48	TR. TRIPPED ON DIFFERENTIAL PROT., 87TA, DIFFERENTIAL `A' PHASE, 87TB, DIFFERENTIAL PROTECTION `B' PHASE, 64RLV, E/F, 86 ALONG WITH 33KV I/C-II WHICH TRIPPED ON 86
09	05.09.10	09.59	220/33KV 100MVA PR. TR.-I, II & III AT IP	05.09.10	17.00	TR-I TRIPPED ON E/F, TR.-II TRIPPED ON O/C `Y' PHASE AND TR.-III TRIPPED ON 86, 51N SNAKE FOUND IN 33KV EAST BUS-II AND EARTHING FOUND BROKEN OF TR-I & II. TR.-I & II CHARGED AT 17.00HRS. AND TR.-III CHARGED AT 11.48HRS.
10	05.09.10	09.59	220KV IP – PRAGATI CKT-I & II	05.09.10	10.50	CKT-I & II TRIPPED ON DIRECTIONAL E/F,86 AT IP. NO TRIPPING AT PRAGATI. BOTH CKT. CHARGED AT 10.50HRS.
11	07.09.10	16.01	400KV BAWANA – HISSAR CKT.	08.09.10	11.02	CKT. TRIPPED ON 97XY, 85Y, 195, 295, 2/AA, 80A, 80B, 186A&B, 52X2, 52X3, 52X4, 52X7, CB LOCK OUT AT BAWANA.
12	07.09.10	19.15	220/66KV 160MVA PR. TR. AT GT	07.09.10	19.56	TR. TRIPPED ON O/C, E/F,
13	08.09.10	12.32	220/33KV 100MVA PR. TR.-IV AT OKHLA	08.09.10	14.48	TR. TRIPPED ON 86 ALONG WITH 33KV I/C-IV WHICH TRIPPED ON 86 LV.
14	08.09.10	15.31	66/11KV 20MVA PR. TR. AT DSIDC BAWANA	08.09.10	19.10	TR. TRIPPED ON E/F, O/C.
15	08.09.10	16.32	33/11KV 16MVA PR. TR.-II AT GOPALPUR	08.09.10	18.10	TR. TRIPPED ON BUCHLOZ, 30D, OLTC BUCHLOZ ALONG WITH ITS 11KV I/C WHICH TRIPPED ON 86.
16	08.09.10	18.30	33/11KV 16MVA PR. TR.-II AT GOPALPUR	08.09.10	21.05	TR. TRIPPED ON OLTC BUCHLOZ
17	10.09.10	00.54	20KV MAHARANI BAGH – PRAGATI CKT.	10.09.10	17.40	CKT. TRIPPED ON DIST. PROT `R' PHASE ZONE-I AT MAHARANI BAGH AND ON DIST PROT ZONE-I AT PRAGATI. CKT. TRIED TO CLOSE AT 01.24HRS. BUT DID NOT HOLD. CKT. FINALLY CHARGED AT 17.40HRS.
18	11.09.10	10.12	220/66KV 100MVA PR. TR.-IV AT NAJAFGARH	11.09.10	15.45	TR. TRIPPED ON 295CB, 86, SUDDEN PRESSURE RELAY, ALONG WITH 66KV I/C-II WHICH TRIPPED ON 95C, 51AX. 66KC I/C-II CHARGED AT 11.29HRS.
19	11.09.10	17.49	220KV WAZIRABAD – GEETA COLONY CKT-II	11.09.10	18.04	CKT. TRIPPED ON DIST PROT `AB' PHASE ZONE-I, 27RYB, 86 AT GEETA COLONY AND ON DIST PROT `RYB' PHASE ZONE-I AT WAZIRABAD.
20	11.09.10	19.30	220/66KV 100MVA PR. TR.-II & IV AT NAJAFGARH	11.09.10	23.35	TR.-II TRIPPED ON O/C AND TR.-IV TRIPPED ON 30E, SUDDEN PRESSURE RELAY, 86. TR.-II & IV CHARGED AT 19.50 HRS. AND 23.35HRS. RESPECTIVELY.
21	12.09.10	09.28	220KV BTPS – NOIDA – GAZIPUR CKT.	12.09.10	10.39	CKT. TRIPPED WITHOUT INDICATION AT BTPS. NO TRIPPING AT GAZIPUR.
22	13.09.10	11.25	220KV MAHARANI BAGH – PRAGATI CKT.	13.09.10	12.45	CKT. TRIPPED ON POLE DISCREPANCY.
23	13.09.10	12.15	220KV WAZIRABAD – GEETA COLONY CKT-II	13.09.10	13.50	CKT. TRIPPED ON DIST PROT `RYB' PH. ZONE-II AT WAZIRABAD AND ON DIST PROT ZONE-I AT GEETA COLONY.

SLNO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
24	13.09.10	19.50	220/66KV 100MVA PR. TR.-I AT PAPPANKALAN-I	14.09.10	11.26	TR. TRIPPED ON SPR & PR RELAY ALONG WITH 66KV I/C-I WHICH TRIPPED WITHOUT INDICATION.
25	14.09.10	15.10	220/33KV 100MVA PR. TR.-I AT IP	14.09.10	21.00	TR. TRIPPED ON E/F.
26	14.09.10	17.28	220/66KV 100MVA PR. TR.-I AT PAPPANKALAN-II	14.09.10	20.38	TR. TRIPPED ON SUDDEN PRESSURE RELAY ALONG WITH 66KV I/C-I WHICH TRIPPED ON INTER TRIPPING.
27	15.09.10	01.35	33/11KV 20MVA PR. TR. AT SHALIMAR BAGH	15.09.10	12.55	TR. TRIPPED ON 30C ALONG WITH ITS 11KV I/C WHICH TRIPPED ON INTER TRIPPING.
28	16.09.10	14.39	220KV BAWANA – DSIDC BAWANA CKT-I	16.09.10	15.28	CKT. TRIPPED ON DIST PROT 21X, RYB AT BAWANA.
29	16.09.10	15.11	220KV SARITA VIHAR – MAHARANI BAGH CKT	16.09.10	15.50	CKT. TRIPPED ON DIST PROT ZONE-III AT MAHARANI BAGH. NO TRIPPING AT SARITA VIHAR.
30	18.09.10	09.52	220KV PRAGATI – MAHARANI BAGH CKT	18.09.10	11.17	CKT. TRIPPED ON POLE DISCREPANCY AT MAHARANI BAGH. NO TRIPPING AT PRAGATI.
31	18.09.10	09.48	220KV DSIDC BAWANA – NARELA CKT-I	18.09.10	09.56	CKT. TRIPPED ON DIST PROT `ABC' PHASE, 186 AT NARELA AND ON DIST PROT `ABC' PHASE, 186 AT DSIDC BAWANA.
32	18.09.10	10.00	220KV NARELA – DSIDC BAWANA CKT-II	18.09.10	10.00	CKT. TRIPPED ON DIST PROT `B' PHASE, 186 AT NARELA. NO TRIPPING AT DSIDC BAWANA.
33	18.09.10	11.03	220KV DSIDC BAWANA – NARELA CKT-I	19.09.10	05.25	CKT. TRIPPED ON DIST PROT `A' PHASE, 86 AT DSIDC BAWANA.
34	18.09.10	15.06	220KV PRAGATI – MAHARANI BAGH CKT	18.09.10	15.22	CKT. TRIPPED ON POLE DISCREPANCY AT MAHARANI BAGH.
35	18.09.10	15.30	220 SARITA VIHAR – MAHARANI BAGH CKT	18.09.10	15.56	CKT. TRIPPED ON DIST PROT `RY' PHASE ZONE-I AT MAHARANI BAGH AND ON DIST PROT `AB' PHASE, 186AB AT SARITA VIHAR.
36	18.09.10	15.48	220/66KV 160MVA PR. TR-II AT PRAGATI	18.09.10	16.32	TR. TRIP0PED ON INTER TRIPPING WHILE TESTING PROTECTION RELAY.
37	19.09.10	08.50	220/66KV 160MVA PR. TR.-I & II AT RIDGE VALLEY	25.09.10	19.35	TR.-I TRIPPED ON `RYB' CKT. BREAKER OPEN, 86A&B, INTER TRIP GROUP-B, GROUP-A AND TR.-II TRIPPED ON 86A&B, INTER TRIP GROUP-B, GROUP-A.
38	19.09.10	08.50	220KV BAMNAULI – MEHRAULI CKT-II	19.09.10	17.29	CKT. TRIPPED ON DIST PROT `C' PHASE ZONE-I AT MEHRAULI AND ON DIST PROT `C'PHASE, 186A&B AT BAMNAULI.
39	20.09.10	09.55	220KV BTPS – SARITA VIHAR CKT-II	20.09.10	19.00	CKT. TRIPPED ON 195C, BUS BAR PROTECTION
40	21.09.10	21.02	66/11KV 20MVA PR. TR.-I AT KANJHAWALA	21.09.10	22.21	TR. TRIPPED ON 86, AUXILIARY OLTC, 30GH ALONG WITH ITS 11KV I/C-I WHICH TRIPPED ON 86
41	22.09.10	09.41	220KV PRAGATI – MAHARANI BAGH CKT	22.09.10	10.05	CKT. TRIPPED ON POLE DISCREPANCY AT MAHARANI BAGH.
42	22.09.10	11.40	220KV BTPS – NOIDA – GAZIPUR CKT.	22.09.10	12.20	CKT. TRIPPED ON 186AB AT BTPS.

SLNO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
43	22.09.10	23.25	220KV BTPS – MEHRAULI CKT-I	22.09.10	23.49	CKT. TRIPPED ON DIST PROT `C' PHASE E/F AT BTPS AND ON DIST PROT `C' PH. ZONE-I, 186 AT MEHRAULI.
44	22.09.10	02.35	66/11KV 20MVA PR. TR. AT DSIDC BAWANA	22.09.10	07.05	TR. TRIPPED ON O/C, 86, E/F. TR. TRIED TO CHARGE AT 03.02HRS. ON NO LOAD BUD AGAIN TRIPPED ON BUCHLOZ. TR. FINALLY CHARGED AT 07.05HRS.
45	23.09.10	10.48	220KV BAWANA – DSIDC BAWANA CKT-I & II	23.09.10	11.31	CKT. TRIPPED ON DIST PROT `RYB' PHASE ZONE-I AT BAWANA.
46	23.09.10	11.01	220KV PRAGATI – MAHARANI BAGH CKT	23.09.10	11.42	CKT. TRIPPED ON POLE DISCREPANCY AT MAHARANI BAGH.
47	24.09.10	08.18	220/33KV 100MVA PR. TR.-I AT GEETA COLONY	24.09.10	14.42	TR. TRIPPED ON SUDDEN PRESSURE RELAY, 86, 30E,
48	25.09.10	12.58	66/11KV 20MVA PR. TR.-III AT WAZIRABAD	25.09.10	14.30	TR. TRIPPED ON BUCHLOZ, 86, ALONG WITH 11KV I/C-III WHICH TRIPPED WITHOUT INDICATION.
49	25.09.10	14.19	220KV GEETA COLONY – PATPARGANJ CKT-I	25.09.10	14.38	CKT. TRIPPED ON ACTIVE GROUP-I, DIST PROT `AB' PHASE ZONE-II, 30E AT GEETA COLONY AND ON DIST PROT, 86 AT PATPARGANJ.
50	26.09.10	14.35	VARIOUS TRIPPINGS IN DTL SYSTEM			DETAILED REPORT IS AVAILABLE AT SR. NO. **A**
51	26.09.10	19.49	220KV SARITA VIHAR – PRAGATI CKT.	26.09.10	20.18	CKT. TRIPPED ON DIST PROT `ABC' PHASE ZONE-I AT SARITA VIHAR AND ON DIST PROT `ABC' PHASE ZONE-I, 86, 186 AT PRAGATI.
52	27.09.10	11.20	220KV MANDOLA – GOPALPUR CKT-II	27.09.10	12.00	CKT. TRIPPED ON DIST PROT `A' PHASE ZONE-II, 86 AT MANDOLA AND ON DIST PROT `B' PHASE ZONE-I AT GOPALPUR
53	27.09.10	13.09	220KV SARITA VIHAR – PRAGATI CKT.	27.09.10	13.13	CKT. TRIPPED ON DIST PROT `C' PHASE ZONE-I AT PRAGATI AND ON DIST PROT `C' PHASE ZONE-I, 186A&B AT SARITA VIHAR.
54	27.09.10	14.56	220KV MANDOLA – NARELA CKT-I & II	27.09.10	15.44	BOTH CKT TRIPPED ON 85LO, 186A&B, DIRECT TRIP AT MANDOLA. NO TRIPPING AT NARELA.
55	28.09.10	09.58	220/66KV 160MVA PR. TR.-I AT RIDGE VALLEY	28.09.10	17.18	TR. TRIPPED ON SPR, 86A&B.
56	28.09.10	10.17	400KV BAWANA – JHAJJAR CKT.	28.09.10	15.05	CKT. TRIPPED ON POLE DISCREPANCY, ADDED TRIP, 186A&B AT BAWANA
57	28.09.10	15.07	400KV BAWANA – JHAJJAR CKT.	28.09.10	16.56	CKT. TRIPPED ON 85LO, 186A&B AT BAWANA AND ON E/F AT JHAJJAR.

A) Subject : Report on Grid Incident on 26.09.2010 in Delhi system.

The following trippings occurred in Delhi system on 26.09.2010 at 14.35Hrs

(a) 220kV Patpargan

S. No	Name of the feeder/ Transformer tripped	Relay indications	Time of tripping in Hrs.	Time of Restoration in Hrs.	Remarks
01	220kV IP Ckt-I	Dist. Prot zone-I, 186, 186, Dist. 2.8Kms	14.35	14.49	
02	220kV IP Ckt-II	Dist Prot Zone-I, 186, 186, Dist. 3.1Kms	14.35	14.49	Birdage occurred between tower o.2 & 3

(b) 220kV Pragati

S. No	Name of the feeder/ Transformer tripped	Relay indications	Time of tripping in Hrs.	Time of Restoration in Hrs.	Remarks
01	220kV IP Ckt-I	Dist Prot Zone-I, 86, 86	14.35	15.07	No tripping at IP Station
02	220kV IP Ckt-II	Dist Prot Zone-I, ABC Ph. 86, 186	14.35	15.07	No tripping at IP Station

(c) 220kV IP

S. No	Name of the feeder/ Transformer tripped	Relay indications	Time of tripping in Hrs.	Time of Restoration in Hrs.	Remarks
01	220kV Patparganj Ckt-I	Dist Prot zone-I, ABC Phase, 86, 186	14.35	15.03	
02	220kV Patparganj Ckt-II	Dist Prot zone-I, ABC Phase, 86, 186	14.35	15.03	

System configuration during the incident

At the time of incident, Pragati Unit-I and STG was connected to Mandola side through 220kV WAzirabad – Geeta Colony – Patparganj – IP – Pragati Ckts. RPH units were out.

The load generation position prior to the grid incident was as under:-

Sub-Station	Connected Load in MW	Generation position prior to the incident in MW	Load relief due to under frequency operation
IP	90	--	-
RPH	41	NIL	-
Pragati	0	183	-
Total	**131**	**183**	**-**

The generating units affected were normalized as under:

Generating Station Name	Unit No.	Time of trippings	Time of synchronization	Generation prior to the incident
Pragati	1	14.35	15.44	81
	STG	14.35	15.35	102
TOTAL				**377**

Load affected due to the above tripping is as under:-

Duration in hrs.		Quantum in MW	Grid	Name of the ckt.	Remarks
From	To				
14.35	16.05	41	**RPH**	33kV Bay no. 1, 2, 5, 6, 12, 13, 17 , 18 & 19	
14.35	15.07	35	**IP Station**	33kV Bay no. 7,13,17,25,33,37	
14.35	15.20	55		33kV Bay no. 1,2,3,4,5,6,9,10,16, 19,24,28,29,30,34,38,42	

19.7 DETAILS OF 400/220KV BREAKDOWN/TRIPPINGS OCCURRED IN DTL SYSTEM DURING THE MONTH OCTOBER -2010

SLNO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
01	02.10.10	10.02	220KV BAWANA – KANJHAWALA CKT.	02.10.10	10.12	CKT. TRIPPED ON DIST PROT `R&Y' PHASE AT BAWANA.
02	02.10.10	10.50	220KV BTPS – NOIDA – GAZIPUR CKT.	02.10.10	10.56	CKT. TRIPPED ON `R' PHASE E/F AT BTPS. NO TRIPPING AT GAZIPUR
03	02.10.10	14.49	400KV BAMNAULI – BAWANA CKT-II	02.10.10	14.58	CKT. TRIPPED ON 85LO, 85LDX, 30CM2, 186R&B ON BOTH BREAKERS AT BAWANA. NO TRIPPING AT BAMNAULI.
04	03.10.10	20.45	220KV BAWANA – ROHINI CKT-I	03.10.10	20.50	CB-1052 OF 220KV BUS SECTION TRIPPED WITHOUT INDICATION AT BAWANA. BUS BAR PROTECTION OPERATED AT BAWANA
05	03.10.10	20.45	220KV BAWANA – KANJHAWALA CKT.	03.10.10	20.49	CB-1052 OF 220KV BUS SECTION TRIPPED WITHOUT INDICATION AT BAWANA. BUS BAR PROTECTION OPERATED AT BAWANA
06	03.10.10	20.45	220/66KV 100MVA PR. TR. AT BAWANA	03.10.10	20.47	CB-1052 OF 220KV BUS SECTION TRIPPED WITHOUT INDICATION AT BAWANA. BUS BAR PROTECTION OPERATED AT BAWANA
07	03.10.10	20.57	66/11KV 20MVA PR. TR-III AT WAZIRABAD	04.10.10	04.44	TR. TRIPPED ON DIFFERENTIAL, 87B, REF. 66KV `B' PHASE CT BLAST AND `R' PHASE ISOLATOR TO THE COMMON JUMPER DAMAGED.
08	04.10.10	10.39	220/66KV 160MVA TR-I AT RIDGE VALLEY	04.10.10	15.15	TR. TRIPPED ON 86AB, E/F LV SIDE
09	04.10.10	12.27	220KV BAWANA – SHALIMAR BAGH CKT-I & II	04.10.10	12.44	CKT-I TRIPPED ON 86AB, 96A & CKT-II TRIPPED ON 186A&B, 96 AT SHALIMAR BAGH. NO TRIPPING AT BAWANA. BIRDAGE REPORTED AT SHALIMAR BAGH.
10	04.10.10	12.27	220KV BAWANA – ROHINI CKT-II	04.10.10	12.44	CKT. TRIPPED ON 186, 96 AT SHALIMAR BAGH. NO TRIPPING AT ROHINI
11	04.10.10	12.27	220/33KV 100MVA PR. TR.-I AT SHALIMAR BAGH	04.10.10	12.44	TR. TRIPPED ON 96, 186A&B.
12	05.10.10	06.40	220/66KV 160MVA PR. TR.-I AT RIDGE VALLEY	05.10.10	12.23	TR. TRIPPED ON TSTA, RSTB. ALONGWITH 66KV BUS –I
13	05.10.10	10.50	33/11KV 16MVA PR. TR.-I AT NARAINA	06.10.10	01.15	TR. TRIPPED ALONG WITH 11KV I/C-I ON O/C, E/F, 86.
14	07.10.10	18.51	220KV BAMNAULI – MEHRAULI CKT-I	07.10.10	18.55	CKT. TRIPPED ON 186A&B, DIST PROT `B' PHASE AT BAMNAULI. NO TRIPPING AT MEHRAULI.
15	08.10.10	09.09	220/66KV 100MVA PR. TR.-IV AT NAJAFGARH	08.10.10	16.50	TR. TRIPPED ON 30A, BUCHLOZ, 86, 95CB, TR. TROUBLE ALARM
16	08.10.10	10.52	220KV BAMNAULI – PAPPANKALAN-I CKT-I	08.10.10	11.30	CKT. TRIPPED ON AUTO RECLOSE LOCK OUT, BACK UP PROTECTION, DIRECTIONAL O/C AT PAPPANKALAN-I. NO TRIPPING AT BAMNAULI.
17	08.10.10	15.50	220KV MANDOLA – WAZIRABAD CKT-II	08.10.10	16.10	CKT. TRIPPED ON DIST PROT `RYB' PH ZONE-I AT WAZIRABAD AND ON DIST PROT `RY' PH. ZONE-I AT MANDOLA.

SLNO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
18	10.10.10	00.19	220/66KV 100MVA PR. TR.-I AT MEHRAULI	10.10.10	15.29	TR. TRIPPED ON 95CA, 86, TROUBLE TRIP, PRV
19	10.10.10	07.56	33/11KV 20MVA PR. TR. AT KASHMIRI GATE	10.10.10	11.20	TR. TRIPPED ON O/C `B' PHASE, 86 ALONG WITH ITS 11KV I/C WHICH ALSO TRIPPED ON SAME INDICATION.
20	10.10.10	18.23	220KV GOPALPUR – SUBZI MANDI CKT-II	10.10.10	18.43	CKT. TRIPPED ON DIST PROT `RYB' PHASE AT GOPALPUR. NO TRIPPING AT SUBZI MANDI
21	10.10.10	19.34	ALL 400KV BREAKERS ON 400KV BUS-II AT BAWANA	10.10.10	20.09	ALL BREAKERS TRIPPED DUE TO TRIPPING OF BUS WITH INDICATION 96B, 96D, 96H, 96K, 96C, 96M, 96P, 96R. THE ABOVE TRIPPING OCCURRED WHILE CLOSING OF BAY-401 AND BAY-423 AT BAWANA CCGT.
22	11.10.10	05.23	220/66KV 100MVA PR. TR.-I AT MEHRAULI	17.10.10	18.31	TR. TRIPPED ON SUDDEN PRESSURE RELAY, 86.
23	12.10.10	16.54	220KV PRAGATI – SARITA VIHAR CKT.	12.10.10	17.38	CKT. TRIPPED ON DIST PROT ZONE-I, ACTIVE GROUP-I AT PRAGATI AND ON DIST PROT 186A&B, AUTO RECLOSE LOCK OUT AT SARITA VIHAR.
24	12.10.10.	16.55	220KV MAHARANI BAGH – PRAGATI CKT.	12.10.10	17.36	CKT. TRIPPED ON DIST PROT. L3 NEUTRAL,`B' PH NEUTRAL AT PRAGATI. DUE TO TRIPPING OF 220KV PRAGATI – SARITA VIHAR CKT. AND 220KV MAHARANI BAGH – SARITA VIHAR CKT, PRAGATI UNIT-II AND GT UNITS ISLANDED FROM THE GRID AND SURVIVED.
25	13.10.10	13.19	220KV MEHRAULI – DIAL CKT-II	13.10.10	13.37	CKT. TRIPPED ON DIST PROT `C' PHASE ZONE-I AT MEHRAULI.
26	13.10.10	13.19	220/66KV 160MVA PR. TR.-I & II AT DIAL	19.10.10	11.40	BOTH TRANSFORMERS TRIPPED ON GENERAL TRIP, DIFFERENTIAL R&B PH.
27	13.10.10	17.04	220KV BTPS – OKHLA CKT-I	13.10.10	17.25	CKT. TRIPPED ON 186, 30G, 30C, 86X, 86X1 AT BTPS. NO TRIPPING AT OKHLA
28	14.10.10	07.40	220KV BTPS – OKHLA CKT-I & II	14.10.10	14.56	THE FOLLOWING TRIPPINGS OCCURRED : AT BTPS 220KV OKHLA CKT-I : POLE DISCREPANCY 220KV OKHLA CKT-II : 30A, 30G, 86 AT OKHLA 220KV BTPS CKT-I : 95CC, 220KV BTPS CKT-II : NO TRIPPING. CKT-I TRIED TO CLOSE BUT AGAIN TRIPPED ON POLE DISCREPANCY. CKT-I & II CHARGED 14.56HRS. AND 08.14HRS RESPECTIVELY.
29	14.10.10	07.40	220/33KV 50MVA PR. TR. AT OKHLA	14.10.10	08.14	TR. TRIPPED ON 95C, 86
30	14.10.10	20.25	220/33KV 100MVA PR. TR.-II AT IP	14.10.10	20.34	TR. TRIPPED ON 86
31	14.10.10	17.06	VARIOUS TRIPPINGS IN DTL SYSTEM	14.10.10		DETAILED REPORT IS AVAILABLE AT SR. NO. **A**
32	14.10.10	22.07	400KV BALLABHGARH – BAMNAULI CKT-I	14.10.10		AUTO RECLOSE OPERATED.

SLNO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
33	15.10.10	06.35	220/33KV 100MVA PR. TR.-II AT IP	15.10.10	06.42	TR. TRIPPED WITHOUT INDICATION.
34	15.10.10	13.04	220KV SARITA VIHAR – MAHARANI BAGH CKT	15.10.10	18.41	CKT. TRIPPED ON POLE DISCREPANCY AT SARITA VIHAR.
35	15.10.10	18.09	220KV GEETA COLONY – PATPARGANJ CKT-II	15.10.10	18.09	CKT. TRIPPED ON ACTIVE GROUP-I, DIST PROT `ABC' PHASE ZONE-II AT GEETA COLONY AND ON ACTIVE GROUP, DIST PROT `ABC' PHASE ZONE-I AT PATPARGANJ
36	15.10.10	21.10	ALL ICTS AND 400KV BREAKERS OF 400KV BUS-II AT BAWANA	15.10.10	21.34	BUS BAR PROTECTION OPERATED AT 400KV BAWANA ON 400KV BUS-II DURING THE SYNCHRONIZATION OF BAWANA CCGT BUS.
37	17.10.10	07.22	220KV IP – PRAGATI CKT-I & II	17.10.10	07.28	CKT-I. TRIPPED ON 86 AND CKT-II TRIPPED ON DIST PROT `ABC' PHASE ZONE-II AT IP. CKT-I & II CHARGED AT 07.27HRS. AND 07.28HRS RESPECTIVELY.
38	17.10.10	07.22	220/33KV 100MVA PR. TR.-II AT IP	17.10.10	07.40	TR. TRIPPED ON 86
39	17.10.10	07.22	220KV PATPARGANJ – IP CKT-I	17.10.10	09.35	CKT. TRIPPED ON DIST PROT `C' PHASE, 186, ACTIVE GROUP-I AT PATPARGANJ.
40	18.10.10	20.52	220/66KV 100MVA PR. TR.-IV AT NAJAFGARH	19.10.10	09.55	TR. TRIPPED ON 295CB, 295CC, 86, 30E, SUDDEN PRESSURE RELAY ALONG WITH ITS 66KV I/C WHICH TRIPPED WITHOUT INDICATION.
41	19.10.10	01.45	66/11KV 20MVA PR. TR.-III AT PAPPANKALAN-I	19.10.10	09.42	TR. TRIPPED ON GAS PRESSURE LOW.
42	20.10.10	15.55	220KV WAZIRABAD – GEETA COLONY CKT-II	20.10.10	18..24	CKT. TRIPPED ON RXME18, DIST PROT `RYB' PHASE ZONE-I AT WAZIRABAD AND ON DIST PROT ABC PHASE ZONE-II AT GEETA COLONY.
43	20.10.10	15.55	220KV WAZIRABAD – KASHMIRI GATE CKT-II	20.10.10	16.13	CKT TRIPPED ON DIST PROT ZONE-I AT WAZIRABAD. NO TRIPPING AT KASHMIRI GATE.
44	21.10.10	12.22	220/33KV 100MVA PR. TR.-II AT IP	21.10.10	12.28	TR. TRIPPED ON TRIPPING RELAY
45	22.10.10	13.27	33/11KV 16MVA TR. TR AT SHALIMAR BAGH	23.10.10	00.03	TR. TRIPPED ON DIFFERENTIAL ALONG WITH ITS 11KV I/C WHICH TRIPPED WITHOUT INDICATION.
46	22.10.10	16.26	220/66KV 100MVA PR. TR.-I AT NAJAFGARH	22.10.10	17.08	TR. TRIPPED ON O/C, 51AX ALONG WITH 66KV I/C-I & III WHICH TRIPPED ON O/C, 51CX. 66KV I/C-I & III CHARGED AT 17.08HRS.
47	22.10.10	16.46	220KV PRAGATI – SARITA VIHAR CKT.	22.10.10	17.13	CKT. TRIPPED ON DIST PROT C' PHASE ZONE-I AT SARITA VIHAR AND ON DIST PROT ZONE-I, 186 AT PRAGATI.
48	22.10.10	16.50	220KV MANDOLA – GOPALPUR CKT-II	22.10.10	17.33	CKT. TRIPPED ON B2N ZONE-II, 86 RYB, 186A&B AT MANDOLA AND ON DIST PROT `RYB' PHASE ZONE-I AT GOPALPUR.
49	22.10.10	17.00	220KV BNTPS – NOIDA – GAZIPUR CKT.	22.10.10	18.49	CKT TRIPPED ON O/C, 67B AT GAZIPUR.

SLNO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
50	23.10.10	01.20	220/66KV 100MVA PR. TR-I AT SARITA VIHAR	23.10.10	17.50	TR. TRIPPED ON TRANSFORMER TROUBLE ALARM, 30A, 86
51	23.10.10	17.15	66/11KV 20MVA PR. TR III AT PAPPANKALAN-I	23.10.10	18.45	TR. TRIPPED ON SF6 GAS PRESSURE LOW, 86 INDICATIONS.
52	24.10.10	14.40	220KV MANDOLA – WAZIRABAD CKT-IV	24.10.10	16.35	CKT. TRIPPED ON DIST PROT `Y&B' PH. ZONE-I AT MANDOLA AND ON DIST PROT `RYB' PH ZONE-I AT WAZIRABAD.
53	24.10.10	17.39	220/33KV 100MVA PR. TR-I, II & III AND 220/33KV 50MVA PR. TR. AT PATPARGANJ	24.10.10	17.54	ALL TRANSFORMERS TRIPPED ON 86. 220KV BUS BAR PROTECTION OPERATED ON 220KV BUS-I AT PATPARGANJ
54	24.10.10	17.39	220KV PATPARGANJ – IP CKT-I	24.10.10	18.17	CKT. TRIPPED ON DIST PROT `ABC' PHASE ZONE-I AT PATPARGANJ. NO TRIPPING AT IP.
55	25.10.10	03.35	220/66KV 160MVA PR. TR-I AT DIAL	30.10.10	22.05	TR. TRIPPED ON BUCHLOZ
56	25.10.10	07.20	66/11KV 20MVA PR. TR.-I AT VASANT KUNJ	25.10.10	11.52	TR TRIPPED ON 30D, 86
57	25.10.10	07.32	220/66KV 160MVA PR. TR.-II AT RIDGE VALLEY	25.10.10	09.20	TR. TRIPPED ON 86A&B GENERAL TRIP A&B.
58	25.10.10	07.32	220KV BAMNAULI – PAPPANKALAN-I CKT-II	25.10.10	07.42	CKT. TRIPPED ON 67NX, 186A&B AT PAPPANKALAN-I. NO TRIPPING AT BAMNAULI
59	25.10.10	07.32	220/66KV 100MVA PR. TR.-IV AT PAPPANKALAN-I	25.10.10	09.40	TR. TRIPPPED ON O/C, E/F, 86B.
60	25.10.10	07.36	22/66KV 100MVA PR. TR.-I AT PAPPANKALAN-II	25.10.10	10.04	TR. TRIPPED ON O/C, E/F, LBB PROTECTION, 86
61	25.10.10	07.33	400KV BALLABHGARH – BAMNAULI CKT-II	25.10.10	08.30	CB-452 OF THE CKT. TRIPPED ON 186A&B, CARRIER CHANNEL AT BAMNAULI.
62	25.10.10	09.34	220KV MANDOLA – NARELA CKT-II	25.10.10	10.17	CKT. TRIPPED WITHOUT INDICATION AT NARELA.
63	25.10.10	07.32	220KV BAMNAULI – DIAL – MEHRAULI CKT	25.10.10	09.42	CKT. TRIPPED ON GENERAL TRIP, GROUP-A, E/F AT DIAL.
64	25.10.10	10.36	220/33KV 100MVA PR. TR-II AT NARELA	25.10.10	11.34	TR. TRIPPED ON 86 ALONG WITH ITS 66KV I/C WHICH TRIPPED ON INTER TRIPPING.
65	29.10.10	02.58	220KV BTPS – MEHRAULI CKT-II	28.10.10	03.18	CKT. TRIPPED ON 30A, 30G AT BTPS AND ON DIST PROT `A' PHASE ZONE-I AT MEHRAULI.
66	29.10.10	07.36	400KV BAWANA – BAMNAULI CKT-I	29.10.10	07.48	BREAKER NO.252 OF THE CKT. TRIPPED ON 186A&B AT BAWANA.
67	29.10.10	21.30	400KV BAWANA – HISSAR CKT.	30.10.10	01.01	BOTH BREAKER AUTO TRIP AT BAWANA.
68	31.10.10	05.25	400KV BAWANA – HISSAR CKT.	31.10.10	06.19	BREAKER NO.952 TRIPPED ON DIST PROT MAIN-I AT BAWANA.

A) Subject : Report on Grid Incident on 14.10.2010 in Delhi system.

The following trippings occurred in Delhi system on 14.10.2010 at 17.06 Hrs

(a) 220kV WAZIRABAD

S. No	Name of the feeder/ Transformer tripped	Relay indications	Time of tripping in Hrs.	Time of Restoration in Hrs.	Remarks
01	220kV Geeta Colony Ckt.I	Distance Protection, zone-II	17.06	17.10	No tripping at Geeta Colony , 220 KV Bus coupler kept open
02	220kV Geeta Colony Ckt.I	Distance Prot. Zone – II,Distance-5.5KM	17.23	17:23	No tripping at Geeta Colony

(b) 220kV GEETA COLONY

S. No	Name of the feeder/ Transformer tripped	Relay indications	Time of tripping in Hrs.	Time of Restoration in Hrs.	Remarks
01	220 kV Patparganj Ckt I	Distance Protection , Zone II ,ABC Phase Distance – 4.273 Km.	17:08	17:12	220 kV Bus Coupler kept Opened.
02	220 kV Patparganj Ckt II	Distance Protection , Zone II , ABC Phase Distance – 4.458 Km.	17:06	17:16	
03	220 kV Wazirabad Ckt I	Supply Fail	17:06	17:12	No tripping at Geeta Colony
04	220 kV Patparganj Ckt I	Supply Fail	17:23	17:24	No tripping at Geeta Colony
05	220 kV Wazirabad Ckt I	Supply Fail	17:23	17:23	No tripping at Geeta Colony

(c) 220kV PATPARGANJ

S. No	Name of the feeder/ Transformer tripped	Relay indications	Time of tripping in Hrs.	Time of Restoration in Hrs.	Remarks
01	220 kV Geeta Colony Ckt I	Distance Protection Zone I , ABC Phase	17:07	17:17	220 kV Bus Coupler kept Opened.
02	220 kV Geeta Colony Ckt II	Distance Protection Zone I, ABC Phase, Distance – 59.81 meter.	17:08	17:18	
03	220 kV Geeta Colony Ckt I	Bus Bar protection Operated	17:22	17:24	Kite thread found on the Ckt.
04	220 kV IP Ckt I	Bus Bar protection Operated	17:22	--	Kite thread found on the Ckt
05	100 MVA Tr. No. I (220/33kV)	Bus Bar protection Operated	17:22	17:24	
06	50 MVA Tr. No. I (220/33kV)	Bus Bar protection Operated	17:22	17:24	
07	220 kV Geeta Colony Ckt II	Bus Bar protection Operated	17:25	17:28	Kite thread found on the Ckt

(d) 220kV I P STATION

S. No	Name of the feeder/ Transformer tripped	Relay indications	Time of tripping in Hrs.	Time of Restoration in Hrs.	Remarks
01	220 KV Patparganj Ckt I	Distance Protection , Zone I, Distance – 2.56 Km.	17:06	17:15	220 KV Bus Coupler kept Opened.
02	220 KV Patparganj Ckt II	Supply Failed	17:06	17:18	
03	100 MVA Transformer No. II	Earth Fault , 86	17:06	17:27	
04	220 KV Patparganj Ckt I	Supply Failed	17:23		Supply restore by closing 220 KV Bus coupler at IP Ext. at 17:27 Hrs.
05	220 KV Patparganj Ckt II	Supply Failed	17:23		

(e UNDER FREQUENCY OPERATION

S. No	Name of the feeder/ Transformer tripped	Relay indications	Time of tripping in Hrs.	Time of Restoration in Hrs.	Remarks
01	**RPH** 33kV Bay-1, 2, 5, 6,13	Under Frequency	17:06	17:30	Load relief through Under Frequency relay operation 20 MW
02	**PATPARGANJ** 33 KV Guru Angad Nagar Ckt No II , Preet Vihar , Mother Dairy	Under Frequency	17:06	17:30	Load relief through Under Frequency relay operation 24 MW
	TOTAL LOAD RELIEF				**44 MW**

System configuration during the incident

At the time of incident, Pragati Unit I and S.T.G. were connected to Mandola side through 220kV Wazirabad – Geeta Colony – Patparganj – 220 KV IP - IP Ext.(Pragati) Ckt. RPH units were out. Due to the tripping of 220 kV Patparganj – Geeta Colony Ckt. I & II caused the islanding of the Pragati Units from the Grid and their tripping.

Due to the holiday and closing of all commercial activities in Delhi the kite flying activities increased caused the tripping.

The load generation position prior to the grid incident was as under:-

Sub-Station	Connected Load in MW	Generation position prior to the incident in MW	Load relief due to under frequency operation
Geeta Colony	22	--	--
Patparganj	140	--	24
IP	72	Nil	Nil
RPH	34	Nil	20
Pragati Unit I	--	91	--
S.T.G	--	108	--
Total	**268**	**199**	**44**

The generating units affected were normalized as under:

Generating Station Name	Unit No.	Time of trippings	Time of synchronization	Generation prior to the incident
Pragati	1	17:06	17:44	91
	STG	17:06	17:58	108
TOTAL				**199**

Load affected due to the above tripping is as under:-

Duration in hrs.		**Quantum in MW**	**Grid**	**Name of the ckt.**	**Remarks**
From	**To**				
17:07	17:30	34	**RPH**	33kV Bay no. 1, 2, 5, 6, 12, 13, 17 and 19	IG Stadium Supply changed over to Kashmere Gate Side through 33 kV Bay No. 16.
17:06	17:30	24	**Patparganj**	33kV Preet Vihar Ckt, 33kV Mother Dairy Ckt, 33kV Guru Angad Nagar Ckt II	Load relief by Under Frequency relay Operation
17:06	17:28	116		33kV Geeta Colony Ckt., 33kV CBD Shahdra Ckt, 33kV Karkardooma Ckt. I& II, 33kV Guru Angad Nagar Ckt. I 66kV Vivek Vihar Ckt I & II 66kV GH Ckt I 66 kV Khichripur 66 kV Akshardham	
17:06	17:12	22	**Geeta Colony**	33 kV Shakarpur 33 kV Kanti Nagar I & II	
17:06	17:18	72	**I.P**	33 kV Bay No - 1,3,5 7,9 13, 17, 19,25,33,37, 2, 4, 6, 10,16 ,30, 34, 38, 42	Exhibition Ground Load changed over to Lodhi Road Grid
17:23	17:26	72	**IP**	33 kV Bay No - 1,3,5 7,9 13, 17, 19,25,33,37, 2, 4, 6, 10,16 ,30, 34, 38, 42	

19.8 DETAILS OF 400/220KV BREAKDOWN/TRIPPINGS OCCURRED IN DTL SYSTEM DURING THE MONTH NOVEMBER - 2010

SLNO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
01	01.11.10	06.45	220KV BTPS – SARITA VIHAR CKT-I	01.11.10	08.32	CKT. TRIPPED ON 186A, 186 AT BTPS. NO TRIPPING AT SARITA VIHAR.
02	03.11.10	02.30	220/66KV 100MVA PR. TR.-IV AT ROHINI	03.11.10	05.52	TR TRIPPED OVERFLUX.
03	04.11.10	03.37	220/66KV 100MVA PR. TR.-IV AT ROHINI	04.11.10	05.30	TR. TRIPPED ON OVER FLUX, DIFFERENTIAL, 87, 86 ALONGWITH 66KV I/C-IV WHICH TRIPPED WITHOUT INDICATION.
04	04.11.10	14.43	220KV BAMNAULI – DIAL CKT.	04.11.10	15.55	CKT. TRIPPED ON GENERAL TRIP, LINE DIFFERENTIAL OPERATED `RYB' PHASE TRIPPED.
05	06.11.10	00.25	220/66KV 100MVA PR. TR.-IV AT ROHINI	06.11.10	09.06	TR. TRIPPED ON OVER FLUX
06	06.11.10	01.26	400KV BAWANA – ABDULLAPUR CKT-II	06.11.10	02.00	400KV ABDULLAPUR CKT-II INTER TRIPPED AT BAWANA. CKT. TRIPPED ON HIGH VOLTAGE AT ABDULLAPUR.
07	06.11.10	02.38	400/220KV ICT-III AT BAWANA	06.11.10	12.45	ICT TRIPPED AT OVERFLUX, MAIN CB AUTO TRIP, GROUP-I & II, TRIP CKT FAULTY, CB AUTO RECLOSE LOCK OUT. TIE CB 186A&B, 2/AA
08	07.11.10	02.20	220/66KV 100MVA PR. TR.-I AT NARELA	07.11.10	10.21	TR. TRIPPED ON 186A ALONGWITH ITS 66KV I/C-I WHICH TRIPPED ON INTER TRIPPING.
09	09.11.10	17.15	220/33KV 100MVA PR. TR-II AT IP	09.11.10	19.20	TR. TRIPPED ON 186.
10	09.11.10	17.40	220/33KV 50MVA PR. TR.-II AT PATPARGANJ	09.11.10	23.15	TR. TRIPPED ON 86, 87
11	09.11.10	17.48	220KV IP – PATPARGANJ CKT-I	09.11.10	17.50	CKT. TRIPPED ON 86, 186, DIST PROT. `ABC' PHASE ZONE-I AT IP.
12	09.11.10	17.38	220/33KV 100MVA PR. TR.-II AT IP	09.11.10	17.50	TR. TRIPPED ON 86.
13	10.11.10	12.10	33/11KV 16MVA PR. TR.-I AT PATPARGANJ	10.11.10	17.00	TR. TRIPPED ON E/F. `B' PHASE CT BURNT.
14	10.11.10	12.10	220/33KV 100MVA PR. TR.-IV AT PATPARGANJ	10.11.10	17.00	TR. TRIPPED ON 86 ALONG WITH 33KV I/C-III & IV WHICH TRIPPED ON E/F. 33KV I/C-III & IV CHARGED AT 12.15HRS. AND 12.23HRS. RESPECTIVELY.
15	11.10.10	06.40	220KV PANIPAT – NARELA CKT-III	11.10.10	15.12	CKT. TRIPPED ON DIST PROT `ABC'PHASE ZONE-I, 30C AT NARELA.
16	13.11.10	03.41	220KV MANDOLA – WAZIRABAD CKT-I	13.11.10	04.04	CKT. TRIPPED ON DIST PROT ZONE-I AT WAZIRABAD AND ON DIST PROT `R' PHASE ZONE-II AT MANDOLA.
17	13.11.10	03.41	220/33KV 100MVA PR. TR.-II AT IP	13.11.10	04.08	TR. TRIPPED ON 86.
18	13.11.10	16.16	220KV MEHRAULI – DIAL CKT-II	13.11.10	16.23	CKT. TRIPPED ON GENERAL TRIP, `RYB' PHASE AT DIAL.
19	13.11.10	19.11	400KV BAWANA – ABDULLAPUR CKT-I	13.11.10	19.26	CKT. TRIPPED ON OVER VOLTAGE AT BAWANA

SLNO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
20	16.11.10	17.23	220KV MEHRAULI – DIAL CKT-I	16.11.10	17.46	CKT. TRIPPED ON GENERAL TRIP, LINE DIFFERENTIAL, `Y&B' PHASE.
21	16.11.10	17.23	220KV BAMNAULI – MEHRAULI CKT-I	16.11.10	17.30	TRANSIENT FAULT.
22	19.11.10	08.45	220/33KV 100MVA PR. TR.-II AT IP	19.11.10	09.00	TR. TRIPPED ON 86.
23	21.11.10	16.20	220KV GOPALPUR – SUBZI MANDI CKT-I	21.11.10	16.40	CKT. TRIPPED ON DIST PROT `R' PHASE ZONE-I AT GOPALPUR. NO TRIPPING AT SUBZI MANDI.
24	23.11.10	01.15	66/11KV 20MVA PR. TR.-II AT VASANT KUNJ	23.11.10	13.18	TR. TRIPPED ON 86, 30D ALONG WITH ITS 11KV I/C-II WHICH TRIPPED ON INTER TRIPPING.
25	23.11.10	13.25	220/33KV 100MVA PR. TR.-III AT NARAINA	23.11.10	13.54	TR. TRIPPED ON 86 ALONGWITH ITS 33KV I/C-III WHICH TRIPPED ON O/C, 86, NON DIRECTIONAL E/F.
26	24.11.10	14.56	220/33KV 100MVA PR. TR.-II AT IP	24.11.10	15.03	TR. TRIPPED ON TRIPPING RELAY.
27	25.11.10	06.29	220KV MANDOLA – WAZIRABAD CKT-I	25.11.10	07.09	CKT. TRIPPED ON DIST PROT `RYB' PHASE ZONE-II AT WAZIRABAD AND ON DIST PROT `R' PHASE ZONE-I AT MANDOLA.
28	25.11.10	06.30	220/33KV 100MVA PR. TR.-II AT IP	25.11.10	06.55	TR. TRIPPED ON CB LOCK OUT RELAY, 33KV I/C TRIPPED WITHOUT INDICATION
29	25.11.10	15.10	220/33KV 100MVA PR. TR.-II AT IP	25.11.10	17.30	TR. TRIPPED ON 86.
30	27.11.10	05.08	220KV PANIPAT – NARELA CKT-II	27.11.10	07.12	CKT. TRIPPED ON DIST PROT ZONE-I AT NARELA.
31	27.11.10	12.54	220/33KV 100MVA PR. TR.-II AT IP	27.11.10	17.00	TR. TRIPPED ON E/F, 86 ALONG WITH ITS 33KV I/C-II WHICH TRIPPED ON INTER TRIPPING.
32	27.11.10	15.47	220KV NARELA – ROHTAK ROAD CKT-I	27.11.10	16.04	CKT. TRIPPED ON DIST PROT `ABC' PH. ZONE-I, MICOM RELAY AT NARELA.
33	28.11.10	07.25	220KV BTPS – MEHRAULI CKT-II	28.11.10	07.57	CKT. TRIPPED ON DIST PROT ZONE-I AT MEHRAULI AND ON `R' PH E/F AT BTPS.
34	30.11.10	19.00	220KV PANIPAT – NARELA CKT-II	30.11.10	20.42	CKT. TRIPPED ON DIST PROT ABC PHASE ZONE-I AT NARELA.
35	30.11.10	20.43	220/66KV 100MVA PR. TR.-II AT NARELA	30.11.10	22.18	TR. TRIPPED ON 86 ALONG WITH 66KV I/C-II WHICH TRIPPED ON TRIP CKT SUPERVISION `C' PHASE RELAY.

19.9 DETAILS OF 400/220KV BREAKDOWN/TRIPPINGS OCCURRED IN DTL SYSTEM DURING THE MONTH DECEMBER - 2010

SLNO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
01	01.12.10	13.42	220/66KV 100MVA PR. TR.-IV AT ROHINI	04.12.10	16.24	TR. TRIPPED ON 86A, 87 ALONG WITH ITS 66KV I/C WHICH TRIPPED ON INTER TRIPPING.
02	03.12.10	11.08	400KV BAMNAULI – MUNDKA CKT.	03.12.10	11.28	CKT.TRIPPED ON 186A&B, 85LO AT BAMNAULI
03	03.12.10	12.46	400KV BAMNAULI – MUNDKA CKT.	03.12.10	13.29	CKT.TRIPPED ON 186A&B, 85LO AT BAMNAULI
04	04.12.10	03.04	220/66KV 160MVA PR. TR-II AT PRAGATI	04.12.10	15.49	TR. TRIPPED ON 86, 87 ALONG WITH ITS 66KV I/C-II WHICH TRIPPED WITHOUT INDICATION.
05	04.12.10	12.46	400KV MANDOLA – BAWANA CKT-II	04.12.10	12.51	CKT. TRIPPED ON CB AUTO TRIP, DIST PROT AT BAWANA.
06	05.12.10	12.48	220KV NARELA – ROHTAK ROAD CKT-I	05.12.10	13.45	CKT. TRIPPED ON DIST PROT `ABC' PHASE ZONE-I AT NARELA.
07	06.12.10	00.51	220KV BAMNAULI – NAJAFGARH CKT-II	06.12.10	01.32	CKT. TRIPPED ON LOW AIR PRESSURE, DIST PROT `C' PHASE 186A&B AT BAMNAULI.
08	06.12.10	12.05	400/220KV 315MVA ICT-I & II AT MAHARANI BAGH	06.12.10	13.54	220KV BUS BAR PROTECTION OPERATED ON 220KV BUS-I AT MAHARANI BAGH.
09	06.12.10	23.54	220KV BAWANA - SHALIMAR BAGH CKT-II	07.12.10	00.50	CKT. TRIPPED ON 96B, BUS BAR PROTECTION, 186A&B, DIFFRENTIAL. `Y' PHASE POLE OF CKT BREAKER BLASTED.
10	06.12.10	23.54	220KV BAWANA - SHALIMAR BAGH CKT-I	07.12.10	00.32	220KV BUS BAR PROTECTION OPERATED AT SHALIMAR BAGH.
11	06.12.10	23.54	220/33KV 100MVA PR. TR.-II AT SHALIMAR BAGH	07.12.10	00.32	220KV BUS BAR PROTECTION OPERATED AT SHALIMAR BAGH.
12	06.12.10	23.54	220KV SHALIMAR BAGH – ROHINI CKT-II	07.12.10	00.50	220KV BUS BAR PROTECTION OPERATED AT SHALIMAR BAGH.
13	08.12.10	11.56	400KV BAWANA – MUNDKA CKT-I	08.12.10	13.18	CKT. TRIPPED ON 86A, 86B, TRIP SUPERVISIO RELAY AT MUNDKA.
14	10.12.10	10.50	220KV BAMNAULI – DIAL CKT-II	10.12.10	11.02	CKT. TRIPPED ALONG WITH 220KV BUS COUPLER. 220KV EXTERNAL BUS BAR PROT.OPERATED AT BAMNAULI.
15	14.12.10	07.20	66/33KV 30MVA PR. TR.-II AT PARKSTREET	14.12.10	19.25	TR. TRIPPED ON 30ABCD, BUCHLOZ, 30GHIJKL.
16	14.12.10	14.41	220KV PRAGATI – SARITA VIHAR CKT.	14.12.10	15.10	CKT. TRIPPED ON DIST PROT `ABC' PH. ZONE-II A PRAGATI AND ON DIST PROT `C' PHASE ZONE-I AT SARITA VIHAR.
17	15.12.10	11.25	220/33KV 100MVA PR. TR.-IV AT OKHLA	15.12.10	19.52	TR. TRIPPED ON 86, INSTANTANEOUS E/F, O/C `R' PHASE ALONG WITH 33KC I/C-I & III. 33KV I/C-I TRIPPED ON 95, 86, 51 AND 33KV I/C-III TRIPPED ON 86, `R' PHASE O/C.

SLNO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
18	17.12.10	10.46	220KV MANDOLA – WAZIRABAD CKT-III	17.12.10	10.58	CKT. TRIPPED ON DIST PROT `RYB' PHASE AT WAZIRABAD.
19	20.12.10	07.55	66/11KV 20MVA PR. TR-II AT VASANT KUNJ	22.12.10	11:40	TR. TRIPPED ON OLTC BUCHLOZ, 86 ALONGWITH ITS 11KV I/C-II WHICH TRIPPED ON INTER TRIPPING.
20	21.12.10	08.20	220KV PRAGATI – IP CKT-I	21.12.10	08.40	CKT. TRIPPED ON DIST PROT `ABC' PHASE ZONE-I AT PRAGATI. NO TRIPPING AT IP.
21	21.12.10	08.20	220KV PATPARGANJ – IP CKT-I	21.12.10	08.29	CKT. TRIPPED ON DIST PROT `ABC' PH ZONE-I, AT IP & ON 86X-I, DIST PROT `ABC' PH. ZONE-II AT PATPARGANJ.
22	21.12.10	08.20	220KV PATPARGANJ – GEETA COLONY CKT-I	21.12.10	08.40	CKT. TRIPPED ON DIST PROT `ABC' PHASE ZONE-III AT GEETA COLONY.
23	21.12.10	08.28	220KV RPH – IP CKT-I	21.12.10	09.15	CKT. TRIPPED ON AUTO TRIP, 186 AT RPH. NO TRIPPING AT IP.
24	22.12.10	08.25	400/220KV 315MVA ICT-IV AT BAMNAULI	22.12.10	10.58	ICT TRIPPED ON 52XC ALONG WITH ITS 220KV I/C-IV WHICH TRIPPED ON INTER TRIPPING.
25	22.12.10	15.47	220/66KV 160MVA PR. TR.-I & II AT RIDGE VALLEY	22.12.10	18:54	TR-I TRIPPED ON BUCHLOZ AND TR.-II TRIPPED ON E/F, 86A&B. TR.-II CHARGED ON 18.54HRS. ON 22.12.10.TR-I STILL UNDER B/D DUE TO PROBLEM IN TAP CHANGER.
26	23.12.10	10.50	220/33KV 100MVA PR. TR.-II AT LODHI ROAD	23.12.10	17.30	TR. TRIPPED ON LBB PROT, 86AB, 67AX, 67CX, 186A&B, AUTO RECLOSE.
27	24.12.10	11.58	220/66KV 160MVA PR. TR.-I AT PRAGATI	29.12.10	16.20	TR. TRIPPED ON 86
28	25.12.10	07.16	400KV MUNDKA – BAWANA CKT-I & II	25.12.10	10.02	400KV BAWANA CKT-I & II TRIPPED ON 186CO, 86CB AT MUNDKA. CKT-I & II CHARGED AT 07.33HRS. AND 10.02HRS. RESPECTIVELY.
29	25.12.10	07.16	400KV BAMNAULI – MUNDKA CKT-II	25.12.10	10.05	CKT. TRIPPED ON DIST PROT ZONE-I, 186A&B AT BAMNAULI.
30	25.12.10	11.00	220KV BTPS – MEHRAULI CKT-II	26.12.10	10.58	CKT. TRIPPED ON DIST PROT A' PHASE ZONE-I,ACTIVE GROUP-I AT MEHRAULI AND ON `A' PHASE E/F AT BTPS
31	25.12.10	13.16	220KV MAHARANI BAGH – PRAGATI CKT.	25.12.10	14.43	CKT. TRIPPED WITHOUT INDICATION AT MAHARANI BAGH.
32	25.12.10	23.57	220KV PANIPAT – NARELA CKT-I	26.12.10	22:24	CKT. TRIPPED ON DIST PROT `ABC' PHASE ZONE-I AT NARELA
33	26.12.10	00.16	220KV PANIPAT – NARELA CKT-III	26.12.10	22:24	CKT. TRIPPED ON DIST PROT `ABC' PHASE ZONE-II AT NARELA
34	26.12.10	00.20	220KV PANIPAT – NARELA CKT-II	26.12.10	22:24	CKT. TRIPPED ON DIST PROT `ABC' PHASE ZONE-I AT NARELA
35	26.12.10	00.25	400KV BAMNAULI – MUNDKA CKT-II	26.12.10	01.21	CKT. TRIPPED ON 186A&B, 30C-I, CARRIER, DIST PPROT CNZ-I ON BOTH CB AT BAMNAULI AND ON AUTO RECLOSE TRIP `B' PHASE, TRIP `Y' PHASE, CB AUTO PRESSURE LOW, CVT FAILED AT MUNDKA.

SLNO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
36	26.12.10	00.25	400KV BAMNAULI – MUNDKA CKT-I	26.12.10	01.00	CKT. TRIPPED 186A&B, 3CH, CARRIER, DIST PROT `A' PHASE ZONE-II ON BOTH CB AT BAMNAULI. NO TRIPPING AT MUNDKA.
37	26.12.10	00.25	400KV BAWANA – MUNDKA CKT-I	26.12.10	00.52	CKT. TRIPPED ON TRIP PHASE `B' TRIP PHASE `Y', TRIP PHASE `B' AUTO RECLOSE LOCK OUT AT MUNDKA.
38	26.12.10	01.21	400KV MUNDKA – BAWANA CKT-I	26.12.10	01.35	CKT. TRIPPED ON DIFFERENCE IN PH. 1NCMG RUNNING VOLTAGE, VRY, VBR, DIFF. IN VOLTAGE AT MUNDKA.
39	26.12.10	01.21	400KV MUNDKA – BAMNAULI CKT-I	26.12.10	01.35	CKT. TRIPPED ON SYN, INCMG VOLTAGE LINE, RUNNING VOLTAGE BUS VRY, DIFF. IN VOLTAGE, DIFF. IN PHASE, DIFFERENCE IN FREQ.
40	26.12.10	01.47	220KV BTPS – SARITA VIHAR CKT-II	26.12.10	12.40	CKT. TRIPPED ON DIRECTIONAL E/F, 67NX AT BTPS AND ON AUTO RECLOSE `C' PHASE AT SARITA VIHAR.
41	26.12.10	01.58	400KV MANDOLA – BAWANA CKT-I	26.12.10	02.09	CKT. TRIPPED ON POLE DISCREPANCY, CB-I & II AUTO RECLOSE OPERATED, CARRIER CHANNEL-I & II FAIL, CB-I AUTO TRIP, MAIN CARRIER SIGNAL RECEIVED, CB-II AUTO TRIP MAIN-I & II : ANZ-I, DR-ANZ-I, 186A&B ON CB1652.
42	26.12.10	03.34	400KV MUNDKA – BAWANA CKT-I	26.12.10	03.38	CKT. TRIPPED ON `Y' PHASE-I, TRIP `R' PHASE-I, TRIP `B' PHASE-I, AUTOMATION S, PHASE `R', POSITION-I A MUNDKA.
43	26.12.10	03.34	400KV MUNDKA – BAMNAULI CKT-I	26.12.10	03.38	CKT. TRIPPED ON `Y' PHASE-I, TRIP R PHASE-I, TRIP PHASE B-I, AUTOMATION S PHASE R AT MUNDKA.
44	26.12.10	12.37	400KV MUNDKA – JHAHHAR CKT-II	26.12.10	15.47	CKT. TRIPPED ON 86LO AUTO RECLOSE LOCK OUT AT MUNDKA.
45	27.12.10	00.24	220KV BAWANA – SHALIMAR BAGH CKT-II	27.12.10	00.38	CKT. TRIPPED ON 186A&B, DIST PROT `C' PHASE AT BAWANA AND ON DIST PROT `C' PHASE, 186A&B, AUTO RECLOSE LOCK OUT AT SHALIMAR BAGH.
46	27.12.10	03.38	220KV SARITA VIHAR – PRAGATI CKT.	27.12.10	19:38	CKT. TRIPPED ON DIST PROT `A' PHASE ZONE-I AT SARITA VIHAR AND ON DIST PROT `ABC' PHASE ZONE-II AT PRAGATI.
47	27.12.10	03.45	220KV BTPS – SARITA VIHAR CKT-I & II	27.12.10	04.30	BOTH CKTS TRIPPEDON 67NX AT BTPS. CKT-I & II CHARGED AT 04.24HRS. AND 04.30HRS. RESPECTIVELY.
48	27.12.10	03.23	220KV BAWANA – NAJAFGARH CKT-II	27.12.10	04.36	CKT. TRIPPED ON NUMERICAL DIST PROT RELAY Z-1 DIST PROT `RYB'' AT BAWANA.
49	27.12.10	11.04	400KV MUNDKA – BAWANA CKT-I	27.12.10	11.45	CKT. TRIPPED ON 86A&B AT MUNDKA.
50	30.12.10	10.51	400KV MUNDKA – BAWANA CKT-II	30.12.10	11.06	CB-418-52 TRIPPED WITHOUT INDICATION AT MUNDKA. CKT. CLOSED AT 11.06HRS. BUT AGAIN TRIPPED AT 11.16HRS. ON 286LO, AIR PRESSURE LOW, AUTO RECLOSE LOCK OUT AT MUNDKA. CKT. CB FINALLY CLOSED AT 11.47HRS.

19.10 DETAILS OF 400/220KV BREAKDOWN/TRIPPINGS OCCURRED IN DTL SYSTEM DURING THE MONTH JANUARY -2011

SLNO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
01	04.01.10	20.01	220/66KV 100MVA PR. TR.-II AT DSIDC BAWANA	04.01.10	23.19	TR. TRIPPED ON 30A, BUCHLOZ, 30G, 87.
02	05.01.11	12.05	220/33KV 100MVA PR. TR-II AT IP	05.01.11	12.07	TR. TRIPPED ON WITHOUT INDICATION.
03	07.01.11	03.42	220KV BAWANA – SHALIMAR BAGH CKT-II	07.01.11	03.51	CKT. TRIPPED ON DIST PROT `C' PHASE, 186A&B AT SHALIMAR BAGH AND ON DIST PROT `C' PHASE 186A AT BAWANA.
04	07.01.11	15.54	220KV BAWANA – SHALIMAR BAGH CKT-I	07.01.11	16.18	CKT. TRIPPED ON DIST PROT `A' PHASE, 186A&B AT SHALIMAR BAGH.
05	08.01.11	12.23	400KV MUNDKA – BAWANA CKT-I & II	08.01.11	12.46	BOTH CKT. TRIPPED ON 86A&B, AUTO RECLOSE BLOCK SIGNAL AT MUNDKA.
06	08.01.11	14.44	220KV SARITA VIHAR – PRAGATI CKT.	08.01.11	15.05	CKT. TRIPPED ON DIST PROT `A' PHASE ZONE-I AT PRAGATI AND ON DIST PROT `C' PHASE ZONE-I AT SARITA VIHAR.
07	08.01.11	14.44	220/66KV 160MVA PR. TR.-II AT PRAGATI	08.01.11	16.50	TR. TRIPPED ON 86, 87
08	08.01.11	14.46	220/66KV 160MVA PR. TR.-I AT PRAGATI	08.01.11	15.14	TR. TRIPPED ON 86.
09	08.01.11	17.19	220/66KV 160MVA PR. TR.-I & II AT PRAGATI	08.01.11	19.10	BOTH TRANSFORMERS TRIPPED ON 30F, 86 AT PRAGATI AND ON E/F, O/C AT GT END. TR.-I & II CHARGED AT 17.43HRS. AND 19.10HRS RESPECTIVELY.
10	08.01.11	21.09	220/66KV 160MVA PR. TR.-I & II AT PRAGATI	08.01.11	21.52	TR-I TRIPPED ON INSTANTANEOUS E/F, 164, 86, REF LV SIDE AND TR.-II TRIPPED ON 86, 87
11	11.01.11	23.35	220KV IP – PATPAR GANJ CKT-II	11.01.11	23.55	CKT. TRIPPED ON 186 AT IP.
12	12.01.11	14.27	220KV MANDOLA – NARELA CKT-I & II	12.01.11	14.32	SUPPLY FAILURE FROM MANDOLA. NO TRIPPING AT NARELA.
13	12.01.11	14.27	220KV MANDOLA – GOPALPUR CKT-I & II	12.01.11	16.28	SUPPLY FAILURE FROM MANDOLA. NO TRIPPING AT GOPALPUR.
14	15.01.11	06.30	220KV BAMNAULI – NARAINA CKT-I	15.01.11	08.20	CKT. TRIPPED ON CB LOCK OUT, TRIP CKT FAULTY, LOW AIR PRESSURE.
15	15.01.11	16.20	220KV GOPALPUR – SUBZI MANDI CKT-II	15.01.11	16.46	CKT. TRIPPED ON MAIN-I DIST PROT `RYB' PH, MAIN-II `Y' PHASE AT GOPAL PUR. NO TRIPPING AT SUBZI MANDI.
16	20.01.11	04.12	220KV BAWANA – KANJHAWALA CKT.	20.01.11	16.20	CKT. TRIPPED ON DIST PROT AT KANJHAWALA. Y' PHASE POLE BREAKER OF 220KV KANJHAWALA CKT DAMAGED AT BAWANA.
17	20.01.10	05.05	220/33KV 100MVA PR. TR.-III AT SHALIMAR BAGH	20.01.11	09.34	TR. TRIPPED ON 86.
18	20.01.11	18.02	220KV PATPARGANJ – GEETA COLONY CKT-II	20.01.11	18.20	CKT. TRIPPED ON DIST PROT `ABC' PHASE ZONE-II AT GEETA COLONY AND ON DIST PROT `ABC' PHASE ZONE-I AT PATPARGANJ.

SLNO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
19	20.01.11	21.32	220KV PATPARGANJ – GEETA COLONY CKT-I	20.01.11	21.51	CKT. TRIPPED ON DIST PROT `ABC' PH. ZONE-II AT GEETA COLONY AND ON DIST PROT `ABC' PH. AT PATPARGANJ
20	21.01.11	11.00	220/33KV 100MVA PR. TR.-III AT SHALIMAR BAGH	21.01.11	13.16	TR. TRIPPED ON OVERFLUX, 86
21	22.01.11	17.50	220/66KV 160MVA PR. TR.-II AT PRAGATI	22.01.11	20.40	TR. TRIPPED ON 86, 87.
22	22.01.11	17.58	220KV MAHARANI BAGH – LODHI ROAD CKT-I & II	22.01.11	18.09	BOTH CKT. TRIPPED AT LODHI ROAD END WHILE CLOSING 220KV BUS COUPLER.
23	23.01.11	11.10	220/66KV 160MVA PR. TR.-I AT PRAGATI	23.01.11	11.42	TR. TRIPPED ON 30A, BUCHLOZ, 186.
24	28.01.11	09.35	220KV BAMNAULI – DIAL CKT-I	28.01.11	09.45	CKT. TRIPPED ON GENERAL TRIP DIFFERENTIAL `RYB' AT DIAL, NO TRIPPING AT BAMNAULI.
25	28.01.11	16.46	400KV MANDOLA – BAWANA CKT-II	28.01.11	17.30	BREAKER NO. 417 OF THE CKT. TRIPPED ON CKT COIL FAILTY, CB AIR PRESSURE LOW, DC-I FAIL, 86A&B. BREAKER NO.418 TRIPPED ON 86A&B, AUTO RECLOSE 186 `Y' AT MANDOLA.
26	31.01.11	16.46	220KV GEETA COLONY – PATPARGANJ CKT-II	31.01.11	17.05	CKT. TRIPPED ON DIST PROT ZONE-I, 186 AT PATPARGANJ AND ON DIST PROT `ABC' PHASE ZONE-II AT GEETA COLONY.

19.11 DETAILS OF 400/220KV BREAKDOWN/TRIPPINGS OCCURRED IN DTL SYSTEM DURING THE MONTH FEBRUARY - 2011

SLNO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
01	03.02.11	12.52	400KV MUNDKA – BAWANA CKT-II	03.02.11	13.12	CKT. TRIPPED ON 86A, SUPERVISION, CHANNEL-I AT MUNDKA.
02	04.02.11	20.00	66/11KV 20MVA PR. TR.-II AT VASANT KUNJ	04.02.11	20.35	TR. TRIPPED ON 30B, OLTC.
03	05.02.11	08.39	220KV NARELA – ROHTAK ROAD CKT-I	05.02.11	08.52	CKT. TRIPPED ON DIST PROT `ABC' PHASE ZONE-I AT NARELA.
04	06.02.11	15.53	220/66KV 160MVA PR. TR.-II AT PRAGATI	06.02.11	20.50	TR. TRIPPED WITHOUT INDICATION.
05	07.02.11	01.57	220/33KV 100MVA PR. TR.-I AT IP	07.02.11	02.37	TR. TRIPPED ON 86 LOCK OUT, DCCH RELAY.
06	07.02.11	19.24	220KV BTPS – MEHRAULI CKT-II	08.02.11	12.18	CKT. TRIPPED ON DIST PROT ZONE-I, 30A AT BTPS AND ON DIST PROT `ABC' PHASE ZONE-I AT MEHRAULI.
07	07.02.11	20.15	400KV MUNDKA – JHAJJAR CKT-II	07.02.11	23.35	CB-411 OF THE CKT TRIPPED ON LOW PRESSURE LOW AT MUNDKA.
08	07.02.11	20.34	220/66KV 100MVA PR TR-II AT ROHINI	08.02.11	16.25	TR. TRIPPED ON DIFFERENTIAL, 87B&C, 64RHF (E/F) ALONG WITH 66KV I/C-II
09	07.02.11	20.44	400KV MUNDKA – BAWANA CKT-I	07.02.11	23.35	BOTH BREAKER OF THE CKT TRIPPED ON LOW PRESSUR ELOW AT MUNDKA.
10	07.02.11	20.49	220/66KV 160MVA PR. TR.-II AT PRAGATI	08.02.11	01.35	TR. TRIPPED ON REFHV, LV, 86
11	07.02.11	20.54	220/33KV 100MVA PR. TR.-I AT IP	07.02.11	21.25	TR. TRIPPED ON 86
12	07.02.11	20.59	220KV BTPS – OKHLA CKT-II	08.02.11	18.05	CKT. TRIPPED ON E/F AT BTPS AND ON 87BC AT OKHLA. CKT. TRIED TO CLOSE AT 22.18HRS BUT DID NOT HOLD AND TRIPPED ON DIST PROT `ABC' PH. ZONE-I AT OKHLA. CKT. FINALLY CHARGED AT 18.05HRS. ON 08.02.11
13	07.02.11	21.27	220/66KV 100MVA PR. TR.-IV AT OKHLA	08.02.11	01.32	TR. TRIPPED ON 86 ALONG WITH ITS 66K I/C WHICH ALSO TRIPPED ON 86.
14	08.02.11	07.48	66/11KV 20MVA PR. TR. AT GAZIPUR	08.02.11	08.25	TR TRIPPED ALONG WITH ITS 11KV I/C ON O/C
15	09.02.11	15.56	220KV MANDOLA – WAZIRABAD CKT-III	09.02.11	16.06	CKT. TRIPPED ON DIST PROT `RYB' PHASE AT WAZIRABAD.
16	10.02.11	15.02	220KV MANDOLA - NARELA CKT-I	10.02.11	15.54	CKT. TRIPPED ON DIST PROT `ABC' PH AT NARELA AND ON `Y&B' PHASE 86R, 86T, 86Y, 186A&B AT MANDOLA.
17	12.02.11	11.00	220KV MANDOLA – WAZIRABAD CKT-III	12.02.11	11.04	CKT TRIPPED ON GENERAL TRIP, DIST PROT `RYB' PHASE AT WAZIRABAD.
18	13.02.11	06.38	220866KV 100MVA PR. TR-I AT PAPPANKALAN-II	13.02.11	08.21	TR. TRIPPED ALONG WITH 66KV I/C-I
19	16.02.11	02.32	220/66KV 100MVA PR. TR.-I AT SARITA VIHAR	16.02.11	03.06	TR. TRIPPED O SPR 30F, 86, 30C.
20	16.02.11	02.56	220/66KV 100MVA PR. TR.-II AT SARITA VIHAR	16.02.11	05.43	TR. TRIPPED ON 99 OVER FLUX, 80 SUPERVISION RELAY, 86.

SL NO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REAPRKS
	DATE	TIME		DATE	TIME	
21	18.02.11	08.08	220KV MANDOLA – WAZIRABAD CKT-III	18.02.11	08.11	CKT. TIRPPED ON RXME18, DIST PROT `RYB' PHASE AT WAZIRABAD.
22	18.02.11	11.46	400KV MUNDKA – BAWANA CKT-II	18.02.11	12.14	CKT. TRIPPED ON 86A, 86B, AUTO RECLOSE BLOCK SIGNAL, DIRECT TRIP RECEIVED AT MUNDKA.
23	19.02.11	11.37	220/66KV 160MVA PR TR-II AT PRAGATI	19.02.11	12.30	TR. TRIPPED ON REFHV, REFLV, DDEF TRIP 86. 160MVA PR. TR.-II AT GT ALSO TRIPPED WITHOUT INDICATION.
24	19.02.11	11.38	220KV SARITA VIHAR - MAHARANI BAGH CKT.	19.02.11	12.09	CKT. TRIPPED ON ACTIVE GROUP DIST PROT `A' PHASE ZONE-I, 186A&B, 186X, AUTO RECLOSE LOCK OUT AT SARITA VIHAR AND ON DIST PROT `R' PHASE ZONE-I AT MAHARANI BAGH
25	19.02.11	22.55	220/33KV 100MVA PR. TR.-II AT IP	19.02.11	23.06	TR. TRIPPED ON DIST PROT ALONG WITH ITS 11KV I/C-II
26	22.02.11	07.58	220/66KV 160MVA PR. TR.-II AT PRAGATI	22.02.11	16.49	TR. TRIPPED ON DIFFERENTIAL, 86 ALONG WITH ITS 66KV I/C-II WHICH TRIPPED WITHOUT INDICATION.
27	22.02.11	14.35	33/11KV 20MVA PR. TR-I AT LODHI ROAD	22.02.11	20.23	TR. TRIPPED ON O/C `RYB' PHASE ALONG WITH ITS 11KV I/C WHICH TRIPPED ON O/C `R&Y' PHASE.
28	24.02.11	09.18	220KV MANDOLA – WAZIRABAD CKT-III	24.02.11	11.05	CKT. TRIPPED DUE TO TRIPPING OF 66KV WAZIRABAD – YAMUNA VIHAR CKT-I & II
29	24.02.11	11.20	400KV MUNDKA – JHAJJAR CKT-I	24.02.11	14.03	CB-41452 OF THE CKT. TRIPPED ON 86A, 86B AT MUNDKA END.
30	24.02.11	11.29	220/66KV 100MVA PR. TR.-II AT KANJHAWALA	24.02.11	18.40	TR. TRIPPED ON 86, 75B (HV REF) ALONG WITH 66KV I/C-II WHICH TRIPPED WITHOUT INDICATION.
31	26.02.11	03.48	400KV MUNDKA – JHAJJAR CKT-I	26.02.11	09.33	CKT. TRIPPED ON CB AIR PRESSURE LOW, 86A, 86B, DIRECT TRIP CHANNEL-II AT MUNDKA AND ON OVER VOLTAGE AT JHAJJAR. CKT. TRIED TO CHARGED AT 06.57HRS. BUT DID NOT HOLD. CKT. FINALLY CHARGED AT 09.33HRS.
32	26.02.11	04.06	400/220KV ICT-III AT BAWANA	26.02.11	07.23	ICT TRIPPED ON OVER VOLTAGE, OVER FLUX ALONG WITH ITS 220KV I/C-III WHICH TRIPPED ON INTER TRIPPING.
33	28.02.11	10.56	66/11KV 20MVA PR. TR.-III AT WAZIRABAD	28.02.11	11.30	TR. TRIPPED ON PRV RELAY.
34	28.02.11	18.35	220/66KV 100MVA PR. TR.-I AT GAZIPUR	01.03.11	10.35	TR. TRIPPED WITHOUT INDICATION ALONG WITH ITS 66KV I/C WHICH ALSO TRIPPED WITHOUT INDICATION.

19.12 DETAILS OF 400/220KV BREAKDOWN/TRIPPINGS OCCURRED IN DTL SYSTEM DURING THE MONTH MARCH -2011

SLNO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
01	05.03.11	04.46	220KV BAMNAULI – PAPPANKALAN-I CKT-I	05.03.11	05.05	CKT. TRIPPED ON DIST PROT `C' PHASE 186A&B AT BAMNAULI AND NO TRIPING AT PAPPANAKALAN-I
02	10.03.11	15.20	220K BAMNAULI – PAPPANKALAN-I CKT-I & II	10.03.11	16.18	BOTH CKT TRIPPED ON E/F AT PAPPANKALAN-I
03	10.03.11	15.20	220KV BAMNAULI – DIAL CKT-I & II	10.03.11		CKT. TRIPPED ON DIST PROT `R' PHASE ZONE-I AT DIAL.
04	10.03.11	15.22	220KV MEHRAULI – DIAL CKT-I & II	10.03.11	15.47	SUPPLY FAILED AT MEHRAULI DUE TO TRIPPING OF 220KV BAMNAULI – DIAL CKT-I & II
05	10.03.11	15.25	220/66KV 100MVA PR. TR.-II & IV AT NAJAFGARH	10.03.11	16.05	BOTH TRANSFORMERS TRIPPED ON E/F.
06	10.03.11	15.23	220/33KV 100MVA PR. TR-I & II AT NARAINA	10.03.11	16.35	BOTH TRANSFORMERS TRIPPED ON 86, E/F
07	10.03.11	15.22	220KV MEHRAULI – VASANT KUNJ CKT-I	10.03.11	15.47	SUPPLY FAILED FROM MEHRAULI. NO TRIPPING AT VASANT KUNJ
08	10.03.11	15.20	220KV RIDGE VALLEY – NARAINA CKT-I	10.03.11	16.42	CKT. TRIPPED ON E/F, GENERAL TRIP, 86A&B AT RIDGE VALLEY.
09	10.03.11	15.20	400KV MUNDKA – BAMNAULI CKT-I	10.03.11	16.31	CKT. TRIPPED ON AUTO RECLOSED LOCK OUT, SF-6 GAS LOW ALARM AT MUNDKA
10	10.03.11	16.28	220KV MANDOLA – GOPALPUR CKT-I	10.03.11	17.05	CKT. TRIPPED ON DIST PROT ZONE-I AT GOPALPUR AND ON DIST PROT `B' PHASE ZONE-II AT MANDOLA.
11	10.03.11	15.20	220KV BAMNAULI – PAPPANKALAN-II CKT-I & II	10.03.11	16.36	CKT. TRIPPED ON DIST PROT ZONE-I AT BAMNAULI. NO TRIPPING AT PAPPANKALAN-II
12	10.03.11	16.36	220/66KV 100MVA PR. TR.-I & II PAPPANKALAN-II	10.03.11	16.36	TR.-I TRIPPED ON O/C, E/F AND TR.-II TRIPPED ON O/C, E/F, 86
13	11.03.11	09.31	220KV BTPS – MEHRAULI CKT-II	11.03.11	09.46	CKT. TRIPPED ON 30A, E/F AT BTPS AND ON DIST PROT `A' PHASE ZONE-I AT MEHRAULI.
14	13.03.11	16.54	220KV GOPALPUR – SUBZI MANDI CKT-II	13.03.11	17.41	CKT. TRIPPED ON DIST PROT `RYB' PHASE ZONE-I AT GOPALPUR. NO TRIPPING AT SUBZI MANDI.
15	14.03.11	18.14	220KV MAHARANI BAGH – SARITA VIHAR CKT.	14.03.11	18.38	CKT. TRIPPED ON DIST PROT 'YB' PHASE ZONE-I AT MAHARANI BAGH AND ON DIST PROT `ABC' PHASE ZONE-I AT SARITA VIHAR
16	14.03.11	19.54	400KV MUNDKA – BAWANA CKT-I	14.03.11	20.14	BREAKER NO.41952 OF CKT-I TRIPPED ON 86A&B AT MUNDKA.
17	17.03.11	16.56	66/11KV 20MVA PR. TR.-II AT PAPPANKALAN-II	17.03.11	19.27	TR. TRIPPED ON O/C B' PHASE, BACK UP PROTECTION, DIFFERENTIAL, LBB PROTECTION, 86.
18	19.03.11	14.22	220KV MANDOLA – WAZIRABAD CKT-III	19.03.11	14.48	CKT. TRIPPED ON DIST PROT `RYB' PHASE AT WAZIRABAD

SLNO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
19	20.03.11	01.59	33/11KV 20MVA PR. TR.-I AT LODHI ROAD	20.03.11	03.50	TR. TRIPPED ON O/C, E/F ALONG WITH ITS 11KV I/C-I.
20	20.03.11	09.57	220/33KV 100MVA PR. TR.-IV AT OKHLA	20.03.11	10.20	TR. TRIPPED ON 51CX, 86 ALONG WITH 33KV I/C-III & IV. 33KV I/C-III TRIPPED ON E/F, 86, 51C AND 33KV I/C-IV TRIPPED ON E/F, 51C, 86LV SIDE. 33KV I/C-III & IV CHARGED AT 10.10HRS AND 10.22HRS RESPECTIVELY.
21	21.03.11	12.23	220KV NARAINA – RIDGE VALLEY CKT.-I	21.03.11	12.44	CKT. TRIPPED ON AUTO RECLOSE LOCK OUT, 186ABC, GENERAL TRIP `R' PHASE AT NARAINA AND ON 86A AT RIDGE VALLEY.
22	21.03.11	12.23	400KV MUNDKA – BAMNAULI CKT-I & II	21.03.11	12.40	CB-401 TRIPPED ON BUS BAR PROTECTION AT BAMNAULI AND CB-401 BUS BAR PROTECTION OPERATION
23	21.03.11	12.23	400KV BAWANA – BAMNAULI CKT-I	21.03.11	12.40	CB-417 OF BAWANA CKT-II TRIPPED ON 86A&B, 186LO AT BAMNAULI AND CB-419&420 TRIPPED ON AIR PRESSURE LOW, 186LO, 86A&B AT BAMNAULI.
24	21.03.11	12.23	220/66KV 100MVA PR. TR.-I & II AT DSIDC	21.03.11	13.21	BOTH TRANSFORMERS TRIPPED ON E/F, O/C.
25	21.03.11	15.02	220KV MANDOLA – GOPALPUR CKT-I	21.03.11	15.14	CKT. TRIPPED ON DIST PROT `B&C' PHASE ZONE-II AT GOPALPUR.
26	21.03.11	19.25	220KV MANDOLA – WAZIRABADA CKT-III	21.03.11	19.46	CKT. TRIPPED ON DIST PROT `RYB' PHASE AT WAZIRABAD.
27	21.03.11	23.46	220KV MANDOLA – WAZIRABADA CKT-III	22.03.11	00.08	CKT. TRIPPED ON DIST PROT `RYB' PHASE AT WAZIRABAD.
28	22.03.11	12.17	220KV NARAINA – RIDGE VALLEY CKT-I	22.03.11	12.39	CKT. TRIPPED ON 186ABC, AUTO RECLOSE AT NARAINA, AND ON 86A&B, E/F AT RIDGE VALLEY.
29	22.03.11	12.17	220KV BAMNAULI – NAJAFGARH CKT-II	22.03.11	12.38	CKT. TRIPPED ON DIST PROT `C' PH ZONE-I AT NAJAFGARH AND ON DIST PROT `C' PH. ZONE-II AT BAMNAULI.
30	22.03.11	23.12	220KV MEHRAULI – VASANT KUNJ CKT-I	22.03.11	23.50	CKT TRIPPED ON 195CB, 67AX, 67CX, 195CB, 186A&B AT MEHRAULI. NO TRIPPING AT VASANT KUNJ
31	23.03.11	22.48	400KV BAWANA – HISSAR CKT.	23.03.11	23.39	400KV CB-852 & 952 TRIPPED O MAIN-I CNZ-I, MAIN-II : ABC PHASE, 186A&B, 86A-II GROUP-II, 86C-II AT BAWANA
32	24.03.11	17.16	400KV JHAJJAR – MUNDKA CKT-I & II	24.03.11	18.24	BOTH BREAKER TRIPPED CHANNEL-I, 86A&B, 411552 JHAJJAR –I BREAKER TRIP ON CHANNEL-I & II 86A&B.
33	24.03.11	15.12	220KV MANDOLA – GOPALPUR CKT-II	24.03.11	15.37	CKT. TRIPPED ON `R'P HASE E/F AT MANDOLA AND ON DIST PROT `R' PHASE AT GOPALPUR.
34	26.03.11	23.24	33/11KV 16MVA PR. TR-III AT LODHI ROAD	26.03.11	23.52	TR. TRIPPED ON O/C `R' PHASE, 86 ALONG WITH ITS 11KV I/C.
35	29.03.11	14.20	66/11KV 20MVA PR. TR.-II AT GAZIPUR	29.03.11	16.00	TR. TRIPPED ON 86
36	29.03.11	16.43	220/33KV 100MVA PR. TR.-I AT IP	29.03.11	17.44	TR. TRIPPED ON DIFFERENTIAL, 86.
37	30.03.11	01.45	220/33KV 100MVA PR. TR-I AT IP	30.03.11	15.40	TR TRIPPED ON DIFFERENTIAL.