



# **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**

## **2015-16**

## **CONTENTS**

Sr. No.	Chapter	Page nos.
1	Introduction	4
2	Licensees Operating in Delhi Power System	5
3	Organization set up	6
4	Functions of SLDC	7-8
5	Major Activities of SLDC during 2015-16	9-13
6	Salient features of Delhi Power System	14
7	Performance of generating stations within Delhi	15
8	Details of outage of generating stations within Delhi	16-26
9	Power Supply position of Delhi	27-67
10	Frequency spectrum	68
11	Details of Under Frequency Relay Trippings	68
12	Interstate Transmission Losses	69-74
13	Allocation of power to Distribution Licensees	75-91
14	Inter Discom Transfer of Power	92-96
15	Implementation of Inter State ABT in Delhi	97-108
16	Capacitor Requirement in Delhi	109-119
17	Availability of Delhi Transco's Transmission System	120
18	New Elements commissioned in Transmission network during 2015-16	121
19	Trippings / Break-downs in 400/220kV System.	122-161
20	Major Grid Disturbances occurred in 2015-16	162-193

## **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.

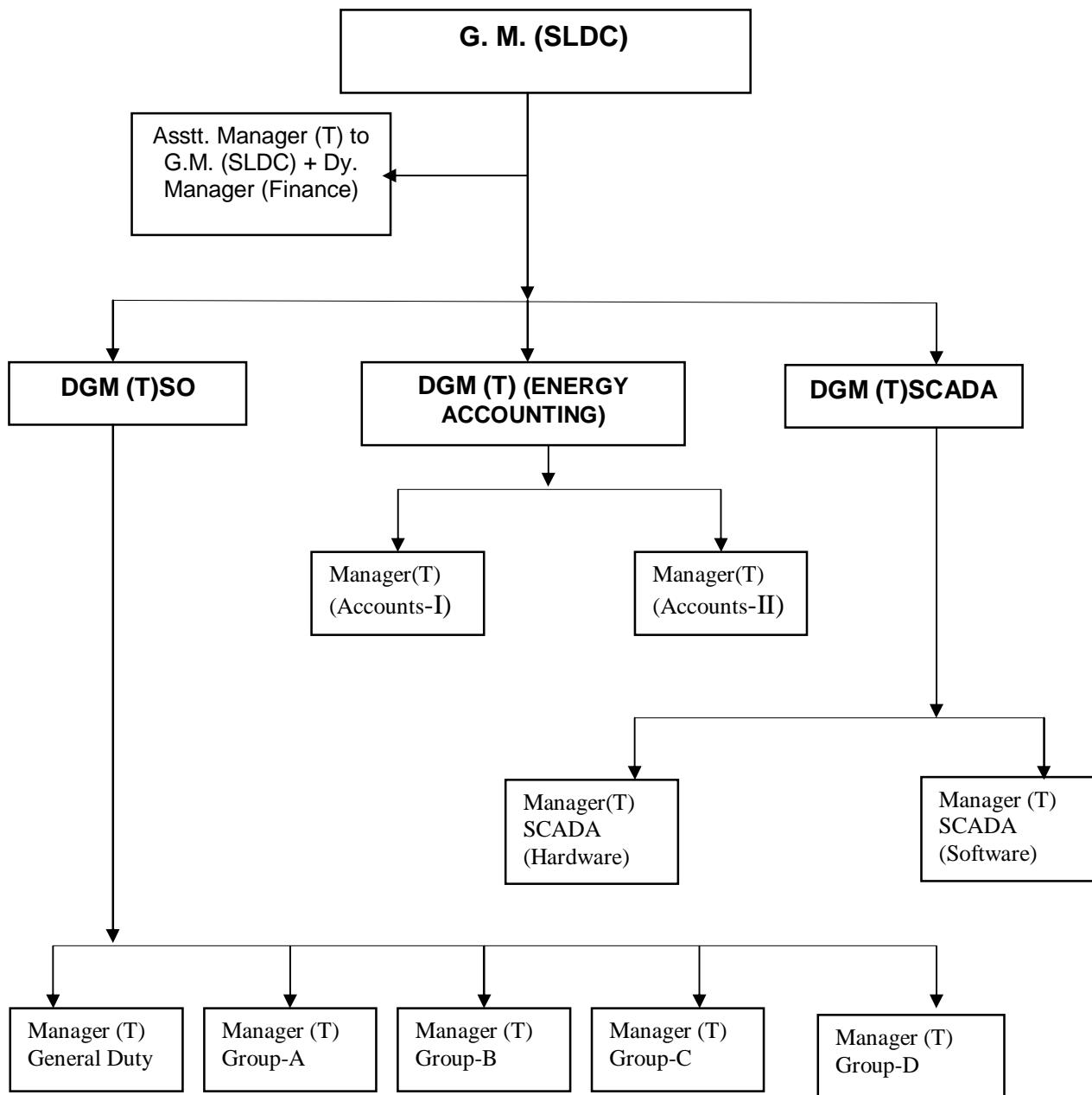
After the enactment of Electricity Act 2003, a new department under the name and style of **State Load Despatch Centre (SLDC)** under Delhi Transco Limited was created, as an Apex body to ensure integrated operation of the power system in Delhi. Earlier the department was part of O&M Department of Delhi 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 Reliability, Security and Economy on sound commercial principles.

## **2 LICENSEES OPERATING IN DELHI POWER SYSTEM**

1)	DELHI TRANSCO LTD.(DTL)	:	TRANSMISSION LICENSEE (STU, DELHI)
2)	INDRAPRASTHA POWER GENERATING COMPANY LTD. (IPGCL)	:	GENERATING UTILITY
3)	PRAGATI POWER CORPORATION LTD. (PPCL)	:	GENERATING UTILITY
4)	BSES RAJDHANI POWER LTD. (BRPL)	:	DISTRIBUTION LICENSEE
5)	BSES YAMUNA POWER LTD. (BYPL)	:	DISTRIBUTION LICENSEE
6)	TATA POWER DELHI DISTRIBUTION LTD. (TPDDL)	:	DISTRIBUTION LICENSEE
7)	NEW DELHI MUNICIPAL COUNCIL (NDMC)	:	DEEMED DISTRIBUTION LICENSEE
8)	MILITARY ENGINEERING SERVICE (MES)	:	DEEMED DISTRIBUTION LICENSEE

### 3 ORGANISATIONAL SETUP OF SLDC DEPARTMENT



#### **4 Functions of various circles of SLDC**

- i) System Operation
- ii) SCADA
- 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, exercises 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.

##### **4.2 Supervisory Control and Data Acquisition (SCADA)**

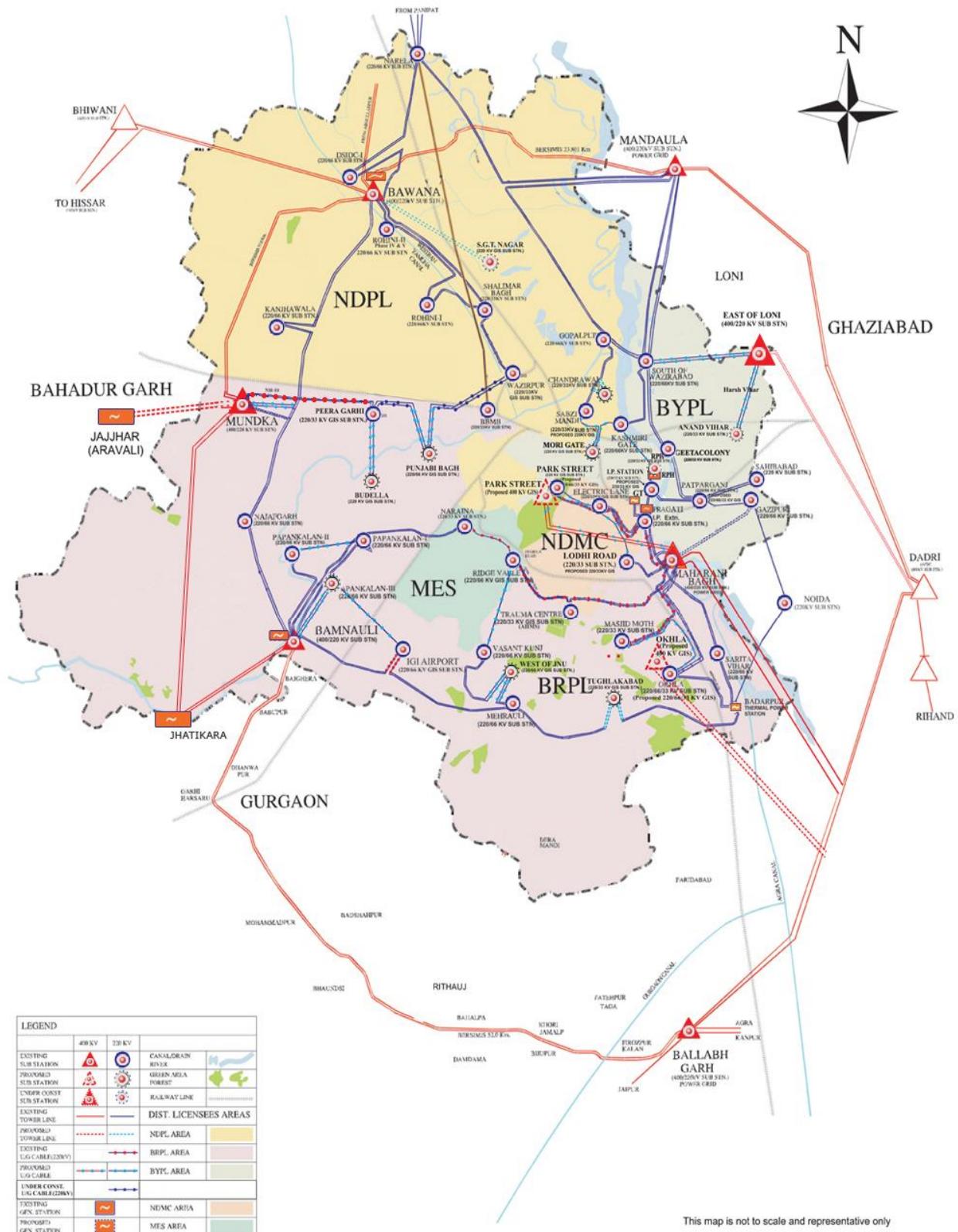
SLDC has the state of art Load despatch centre having SCADA (Supervisor Control And Data Acquisition System) for retrieving information from generating stations and grid sub stations consisting of analog data (like Mega Watt, Voltage, Current, MVar) and digital status of various elements (like Circuit 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 divisions. The software sub division of SCADA has developed in-house softwares for various activities.

##### **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 also to prepare and issue weekly Deviation Settlement Mechanism (DSM) Accounts for Interstate utilities. 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 2015-16**

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 (now DSM) and the State Reactive Energy account tabled by the SLDC through its Commercial Committee (a Sub-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 Intrastate generating units and Intrastate 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 (now DSM) 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-Committees meet periodically to transact business as envisaged in their formation.

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

<b>S. No.</b>	<b>Date of meeting</b>	<b>Discussions and Decision on the issue(s)</b>
<b>1</b>	<b>27.04.2015</b>	<p>12<sup>th</sup> meeting of Grid Coordination Committee held on 27.04.2015 at Badarpur Thermal Power Station, New Delhi-110044. The following decisions were taken :-</p> <ul style="list-style-type: none"> <li>i)GCC discussed the implementation of the Automatic State-of-The-Art-Load-Management Scheme by Discoms and GCC advised SLDC, DTL and Discoms to convene a meeting to resolve data integration issue. GCC also advised all stakeholders to strictly adhere the Grid Code provisions to ensure secure and economic operation of the Grid.</li> <li>ii)GCC discussed the position of outstanding dues of generating companies and to be paid by Distribution Licensees. GCC advised Distribution Licensees to pay atleast current dues in line with the Hon'ble Superme Court order and to maintain power supply position in peak summer months.</li> <li>iii)GCC looked into the status of recommendations of Expert Committee constituted on Grid Disturbances occurred on 30/31July 2012.</li> <li>iv)SLDC presented the anticipated power supply positon of Delhi for ongoing summer months. GCC also discussed the issues discussed in the review meeting convened by Hon'ble Minister of Power, GNCTD on 16.03.2015.</li> <li>v)GCC discussed various system improvement plans for ensuring reliable power supply in Delhi.</li> <li>vi)GCC discussed the surrender of power from various generating stations.</li> <li>vii)GCC discussed the status and revival programme of already out 400kV lines due to various reasons.</li> <li>viii) GCC discussed various other issues such as replacement of conductors of 220kV Narela – Rohtak Road Ckt-I &amp; II, Capacitor installation programme, shut-downs to be availed by DMRC, non usage of bays available at various 220kV Grids,</li> <li>ix)SLDC presented the status of DSM Accounts upto week-52/2014-15</li> </ul>

S. No.	Date of meeting	Discussions and Decision on the issue(s)
2	30.11.2015	<p>13th meeting of Grid Coordination Committee held on 30.11.2015 at Ashoka Hall, Manekshaw Centre, Parade Road, Delhi Cantt, New Delhi-110010. The following discussions and decisions were taken :-</p> <ul style="list-style-type: none"> <li>i)GCC discussed the implementation of the Automatic State-of-The-Art-Load-Management Scheme. GCC advised concerned utilities to adhere the timeline to implement the same.</li> <li>ii)GCC advised BSES utilities to clear the dues of transmission and generating utilities. It was also advised to clear atleast current dues in line with Hon'ble Supreme Court and APTEL orders.</li> <li>iii)GCC perused into the status of recommendations of Expert Committee constituted on Grid Disturbances occurred on 30/31July 2012.</li> <li>iv)SLDC presented the anticipated power supply position of Delhi for ongoing winter months and apprised GCC that Delhi Discoms are having surplus power.</li> <li>v)GCC discussed various plans for improvement and strengthening of transmission and distribution network in Delhi.</li> <li>vi)GCC discussed the capacitor installation programme in Delhi and the study of requirement of capacitors and reactors at 220kV Level for NCR Delhi which was got carried out by CPRI. Report indicated that the reactive power compensation in Delhi is more than adequate. The report was accepted by all the stake holders of Delhi. However, as far as installation of reactors is concerned, the validation of network has been done by Planning Department of DTL and submitted to power grid which will carry out the requirement of reactors based on the validated network data.</li> <li>vii)GCC discussed the issue of replacement of conductors of 220kV Narela – Rohtak Road Ckt-I &amp; II for which Planning Department of DTL was advised to take up the matter with CEA and explore the possibility of re-conductoring of line.</li> <li>viii)The Committee discussed the issue of non usage of bay by various distribution utilites. Distribution utilites briefed the status of the same.</li> <li>ix)Committee discussed the long outage of various transmission and distribution elements and advised transmission and distribution licensees to make efforts for restoration of the elements under outage.</li> <li>x)SLDC presented the status of DSM Accounts upto week-35/2015-16.</li> </ul>

## 6 SALIENT FEATURES OF DELHI POWER SYSTEM

Sr. No.	Features	2014-15	2015-16
1	<b>Effective Generation Capacity within Delhi in MW</b>		
	Rithala	94.2	94.2
	Rajghat Power House	135	135
	Gas Turbine	270	270
	Pragati Stage-I	330	330
	Badapur Thermal Power Station	705	705
	Bawana CCGT	1371	1371
	Timarpur Okhla Waste Management Ltd	16	16
	Total	2922	2922
2	<b>Maximum Unrestricted Demand (MW)</b>	<b>6006</b>	<b>5846</b>
	Date	15.07.14	19.06.15
	Time	15:20:20	15:39:51
3	<b>Peak Demand met (MW)</b>	<b>5925</b>	<b>5846</b>
	Date	15.07.14	19.06.15
	Time	15:20:20	15:39:51
4	Availability (MW)	5766	5648
5	Shortage (-) / Surplus (+) in MW	(-)159	(-)198
6	Percentage Shortage (-) / Surplus (+)	(-)2.68	(-)3.39
7	Maximum Energy Consumption in a day (Mus)	121.410	119.098
8	Energy Consumed during the year	28848.254	<b>29565.723</b>
9	<b>Load Shedding in Mus</b>		
A)	Due to Grid Restrictions		
i)	Under Frequency Relay Operations	0.027	0.022
ii)	Load Shedding by		
	TPDDL	4.992	2.205
	BRPL	21.805	11.057
	BYPL	8.941	0.640
	NDMC	0.080	0.056
	MES	0.003	0.000
iii)	Due to Transmission Constraints in Central Sector System	1.526	0.597
	<b>Total due to Grid Restriction</b>	<b>37.374</b>	<b>14.577</b>
B)	Due to Constraints in System		
	DTL	44.359	10.596
	TPDDL	6.818	3.695
	BRPL	12.931	9.579
	BYPL	5.399	2.798
	NDMC	0.026	0.001
	MES	0.000	0.000
	Other Agencies	9.965	0.801
	<b>Total</b>	<b>79.498</b>	<b>27.471</b>
11	<b>Total Load Shedding in MUs</b>	<b>116.872</b>	<b>42.048</b>
12	<b>Load shedding in percentage of Energy Consumption</b>	<b>0.405</b>	<b>0.142</b>

**7. PERFORMANCE OF GENERATING STATIONS WITHIN DELHI DURING YEAR 2015-16**

Sr. No	Power Station	Effective Capacity (MW)	Gross Generation in MUs	Ex-bus Generation In MUs	Plant Availability Factor in %age	PLF in %age
1	Rithala CCTG	94.2	0.000	-0.732	87.74	-
2	Rajghat TPS	135	46.594	33.596	56.16	3.94
3	Gas Turbine	270	466.474	445.461	74.81	19.72
4	Pragati Stage-I	330	1539.214	1500.009	90.25	53.24
5	BTPS	705	2261.930	2013.118	76.59	36.63
6	Bawana CCGT	1371	1911.525	1832.275	64.55	15.92
7	Timarpur Okhla Waste Management Ltd.	<b>16</b>	<b>147.522</b>	<b>127.927</b>	--	105.25
8	Total	<b>2921.2</b>	<b>6373.259</b>	<b>5951.654</b>		

**The gross generation and ex-bus generation is shown on the basis of operational figures calculated on day to day basis.**

**8. DETAILS OF OUTAGES OF GENERATING STATIONS WITHIN DELHI FOR 2015-16**

**RPH**

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	67.5	01.04.15	23.20	02.04.15	19.50	Stopped due to low demand and high frequency
		04.04.15	13.15	06.05.15	22.40	
		08.05.15	13.40	--	--	Tripped on boiler tube leakage. However, DPPC has also not allowed the operation due to non meeting pollution norms.

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
2	67.5	30.12.14	00.00	01.04.15	16.00	Machine under major overhauling
		02.04.15	12.55	07.04.15	23.59	Turbine trip
		08.04.15	00.00	20.04.15	06.45	Stopped due to low demand and high frequency
		21.04.15	09.50	21.05.15	15.15	Turbine tripped
		07.05.15	00.50	07.05.15	04.20	Tripped on heavy jerk
		21.05.15	10.20	--	--	DPPC also not allowed the operation due to non meeting pollution norms.

(B)

**Gas Turbine**

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	30	27.12.14	17.40	12.05.15	18.45	Stopped due to low demand and high frequency
		19.05.15	18.02	12.06.15	13.15	Machine stopped due to fire in cable
		12.06.15	22.48	24.06.15	12.30	Stopped due to low demand and high frequency
		24.06.15	12.31	30.06.15	11.50	Machine not available due to problem in diesel engine
		30.06.15	12.10	03.08.15	13.08	Stopped due to low demand and high frequency
		03.08.15	17.15	07.08.15	19.15	
		07.08.15	19.15	08.08.15	11.53	Due to problem in diesel engine
		12.08.15	10.20	14.08.15	06.07	Stopped due to low demand and high frequency
		15.08.15	11.53	15.08.15	12.36	Machine tripped on emergency trip manual alarm
		01.09.15	16.12	01.09.15	17.19	Machine tripped due to grid disturbance
		02.09.15	19.50	19.10.15	15.00	Stopped due to low demand and high frequency
		19.10.15	15.00	30.10.15	12.30	Machine stopped for combustion inspection
		30.10.15	12.30	30.10.15	18.10	Stopped due to low demand and high frequency
		30.10.15	18.25	9.11.15	08:25	
		10.11.15	20:04	20.11.15	11:33	
		27.11.15	14:52	27.11.15	17:18	Machine tripped on overall diff. relay operation
		30.11.15	05:50	30.11.15	08:30	
		30.11.15	08:30	16.12.15	15.46	Stopped due to low demand and high frequency
		02.01.16	13:50	7.01.16	06:40	
		11.01.16	22:00	12.01.16	08:35	
		18.01.16	03:47	18.01.16	04:06	Due to tripping of 220kV Geeta colony-Wazirabad Ckts.
		19.01.16	01:30	19.01.16	02:45	Machine tripped due to heavy jerk as Patpar Ganj line tripped.
		19.01.16	02:45	22.01.16	10:15	Stopped due to low demand and high frequency
		22.01.16	18:35	19.03.16	14.08	
		26.03.16	15.59	26.03.16	16.33	Machine tripped as heavy jerk observed in Control room and 160 MVA Tr-i& II tripped at 220 KV end due to tripping of Geeta Colony to Wazirabad ckt.

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
2	30	01.02.14	17.00	24.10.15	14.00	Machine stopped due to high vibration
		24.10.15	18.25	25.10.15	17.03	Machine synchronized for testing
		25.10.15	18.35	26.10.15	16.15	Machine stopped for inspection
		26.10.15	16.15	4.11.15	17:35	Stopped due to low demand and high frequency
		20.11.15	16:40	30.11.15	07:20	
		12.12.15	06:10	12.12.15	06:20	Machine came on FSNL due to tripping of 160 MVA ICT Transformer 1&2.
		14.12.15	01:02	14.12.15	13:40	Stopped due to low demand and high frequency
		16.12.15	00:00	16.12.15	13:30	
		16.12.15	13:40	16.12.15	14:00	Machine came on FSNL
		16.12.15	17:30	02.01.16	12:40	Stopped due to low demand and high frequency
		08.01.16	03:36	08.01.16	19:41	Machine tripped on R,S,T controller any Link inoperative alarm
		08.01.16	19:41	11.01.16	07:35	Machine taken on load but stopped by SLDC as there was no demand from beneficiary
		12.01.16	17:45	19.01.16	03:04	Stopped due to low demand and high frequency
		19.01.16	03:15	19.01.16	03:35	Machine tripped due to heavy jerk as Patpar Ganj line tripped.
		24.01.16	05:48	24.01.16	06:04	
		28.01.16	01:20	Contd.		Stopped due to low demand and high frequency
3	30	02.03.15	17.45	04.04.15	10.45	Stopped due to low demand and high frequency
		04.04.15	16.02	04.04.15	12.50	Machine stopped to change absolute filter
		04.04.15	18.51	21.04.15	10.45	Stopped due to low demand and high frequency
		26.04.15	09.00	06.05.15	14.30	
		11.05.15	08.16	11.05.15	11.13	
		12.05.15	14.45	21.05.15	16.05	
		22.05.15	00.20	22.05.15	10.26	
		22.05.15	15.40	22.05.15	15.55	Machine came on FSNL due to jerk
		23.05.15	17.30	07.08.15	19.35	Stopped due to low demand and high frequency
		07.08.15	19.35	08.08.15	16.25	Machine could not be taken on load due to problem in desigle engine
		08.08.15	16.25	10.08.15	16.55	Stopped due to low demand and high frequency
		11.08.15	00.05	11.08.15	14.18	Machine started to roll STG-2 for improving IR Value of generator
		13.08.15	20.52	9.1.16	15:12	Machine tripped due to tripping of tr. And further Stopped due to low demand and high frequency
		9.1.16	15:12	11.1.16	23:59	Machine is under shutdown to carry out minor works on bearing of Load Gear box.
		12.1.16	00:00	20.1.16	15:15	Machine cleared but not taken on load due low schedule from SLDC
		20.1.16	15:15	01.02.16	19.15	M/c not available due to problem in diesel engine.
		01.02.16	19.15	Contd.		Stopped due to low demand and high frequency

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
4	30	02.03.15	17.45	04.04.15	16.40	Stopped due to low demand and high frequency
		04.04.15	20.12	15.04.15	11.08	
		16.04.15	00.55	21.04.15	11.32	
		27.04.15	15.00	06.05.15	10.46	
		12.05.15	18.50	21.05.15	15.57	
		22.05.15	00.20	23.05.15	09.48	
		23.05.15	17.20	31.05.15	17.46	
		31.05.15	18.33	12.06.15	13.05	
		13.06.15	14.40	15.06.15	23.59	Machine tripped on grid disturbance and further Stopped due to low demand and high frequency
		16.06.15	00.00	02.07.15	23.59	Stopped due to low demand and high frequency
		03.07.15	00.53	03.07.15	01.26	Heavy jerk observed in control room and machine tripped on electrical fault
		04.07.15	19.20	17.07.15	20.22	Stopped due to low demand and high frequency
		17.07.15	20.22	07.08.15	20.26	Machine not available due to damage of LV side y phase bushing of unit transformer
		08.08.15	04.00	13.08.15	23.05	Stopped due to low demand and high frequency
		14.08.15	06.12	11.01.16	23:59	
		12.01.16	00:00	29.01.16	14:00	Shutdown to carry out installation of 66 KV breaker.
		29.01.16	14:00	Contd.		Stopped due to low demand and high frequency
5	30	04.04.15	16.00	04.04.15	19.15	Stopped due to low demand and high frequency
		15.04.15	15.26	16.04.15	00.10	
		22.05.15	15.40	22.05.15	18.50	Machine came on FSNL due to jerk
		31.05.15	12.40	06.06.15	15.22	Machine tripped on electrical trouble normal shutdown
		06.06.15	15.44	12.06.15	13.37	Stopped due to low demand and high frequency
		13.06.15	14.40	13.06.15	15.01	Machine came on FSNL due to jerk
		21.06.15	11.15	22.06.15	10.20	Stopped due to low demand and high frequency
		25.06.15	07.30	26.06.15	14.02	
		23.07.15	13.13	23.07.15	14.07	Machine tripped due to islanding from 220kV side PPS-1
		28.07.15	16.52	28.07.15	18.30	Tripped due to electrical trouble
		28.07.15	19.07	29.07.15	00.32	
		07.08.15	19.00	03.10.15	13.28	Stopped due to low demand and high frequency
		03.10.15	16.12	03.10.15	16.57	Machined tripped on exhaust temp high spread alarm
		07.10.15	01.20	09.10.15	04.29	Stopped due to low demand and high frequency
		05.11.15	02.14	07.01.16	05:19	
		07.01.16	11:59	08.01.16	08:50	
		08.01.16	12:00	10.01.16	15:30	Machine tripped on Electrical Trouble Normal shut down.
		10.01.16	15:30	28.01.16	01:00	machine taken on load but stopped by SLDC as there was no demand from beneficiary
		29.01.16	10:36	07.02.16	08.05	Stopped due to low demand and high frequency
		01.03.16	16.21	01.03.16	17.10	Heavy jerk with sound observed in Control room
		09.03.16	16.24	09.03.16	16.30	Machine tripped due to heavy jerk
		13.03.16	16.02	13.03.16	16.13	Machine tripped due to heavy jerk
		14.03.13	18.43	14.03.13	19.15	Tripped on Exhaust over temperature.
		14.03.16	19.15	Contd		Stopped due to low demand and high frequency

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
6	30	26.04.15	09.00	27.04.15	14.02	Stopped due to low demand and high frequency
		11.05.15	08.17	11.05.15	11.25	
		22.05.15	15.40	22.05.15	15.58	Machine came on FSNL due to jerk
		13.06.15	14.40	13.06.15	15.05	machine came on FSNL due to grid disturbance
		02.07.15	11.16	04.07.15	18.10	Stopped due to oil leakage in GT-6
		06.07.15	19.26	07.07.15	16.00	Stopped due to low demand and high frequency
		07.07.15	16.00	10.07.15	23.00	Stopped due to oil leakage in GT
		10.07.15	23.00	13.07.15	10.22	Stopped due to low demand and high frequency
		14.07.15	03.50	14.07.15	04.06	Machine came on FSNL due to tripping of 20MVA Tr.
		17.07.15	08.20	17.07.15	08.25	
		23.07.15	13.13	23.07.15	14.12	Machine tripped due to islanding
		07.08.15	19.00	02.9.15	17:52	Stopped due to low demand and high frequency
		09.9.15	11:42	09.9.15	12:36	Machine tripped as both 160 MVA Transformer I&II tripped
		13.9.15	12:50	13.9.15	13:33	Machine tripped as both 160 MVA Transformer I&II tripped
		17.9.15	09:42	17.9.15	09:58	Machine came on FSNL as the 66 KV beaker opened.
		19.9.15	05:25	19.9.15	05:58	Bus differential relay on BB-3 & 4 operated, Unit came on FSNL.
		19.9.15	18:28	19.9.15	18:32	Bus differential relay on BB-3 & 4 operated Unit came on FSNL.
		04.10.15	21.02	05.10.15	15.56	Stopped due to low demand and high frequency
		09.10.15	03.50	07.01.16	05.55	
		07.01.16	12:05	08.01.16	06:20	
		08.01.16	16:00	31.01.16	10:32	
		07.02.16	09.05	14.03.16	19.15	
		19.03.16	11.40	Contd		
STG-1	30	19.11.14	21.35	12.05.15	23.00	Stopped due to low demand and high frequency
		19.05.15	17.15	19.05.15	18.00	Machine tripped on FJB vibration very high
		19.05.15	18.00	20.05.15	11.30	Stopped due to low demand and high frequency
		20.05.15	11.30	09.06.15	23.59	Machine is N/A due to fire in cable
		10.06.15	00.00	12.06.15	23.59	Stopped due to low demand and high frequency
		12.06.15	22.39	13.06.15	12.00	Machine could not be taken on load due to problem in vacuum
		13.06.15	12.00	20.06.15	17.30	Stopped due to low demand and high frequency
		20.06.15	17.30	22.06.15	12.00	Machine not available due to vacuum problem
		22.06.15	12.00	24.06.15	12.30	Stopped due to low demand and high frequency
		24.06.15	12.30	30.06.15	13.00	Machine could not be available due to problem in GT-1
		30.06.15	13.00	03.08.15	16.32	Stopped due to low demand and high frequency
		03.08.15	17.15	07.08.15	23.59	
		09.08.15	07.15	09.08.15	15.55	Machine stopped due to generator temperature very high
		12.08.15	10.20	14.08.15	09.15	Stopped due to low demand and high frequency
		15.08.15	11.53	15.08.15	15.04	Machine tripped due to gripping of GT
		01.09.15	16.12	01.09.15	17.19	Machine tripped due to grid disturbance
		02.09.15	19.50	19.10.15	15.00	Stopped due to low demand and high frequency
		19.10.15	15.00	30.10.15	12.30	Machined stopped due to combustion inspection of GT-1

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
STG-1	30	30.10.15	12.30	5.11.15	02:12	Stopped due to low demand and high frequency
		08.11.15	11:22	8.11.15	12:56	Signal Isolator for driving I/H Converter failed. Machine tripped on Trip Oil Pressure very low.
		27.11.15	14:52	27.11.15	18:10	Machine stopped manually as GT#1 tripped.
		30.11.15	05:50	30.11.15	09:35	Machine stopped manually as GT#1 tripped.
		12.12.15	06:20	12.12.15	07:45	Machine tripped due to failure of auxiliary supplu as 160 MVA ICT Transformer 1&2 tripped.
		14.12.15	01:02	14.12.15	15:56	Stopped due to low demand and high frequency
		16.12.15	00:00	16.12.15	17:27	
		29.12.15	19:20	29.12.15	20:50	Drum level parameterfreezed due to failue of BK Card and machine tripped on main Steam temperature low alam.
		13.01.16	10:55	13.01.16	11:40	Machine tripped on Turbine Ch-I & II. UPS supply failed and other parameters were normal.
		18.01.16	03:47	18.01.16	05:58	Machine tripped due to heavy jerk as Geeta colony-Wazirabad line tripped.
		19.01.16	01:30	19.01.16	05:40	Machine tripped due to heavy jerk as Patpar Ganj line tripped.
		24.01.16	05:48	24.01.16	08:13	
		27.01.16	22:13	28.01.16	12:00	Machine tripped due to heavy jerk observed
		28.01.16	12:00	19.03.16	17.33	M/c cleared from maintainence side but not taken on load due to low schedule from SLDC.
		23.03.16	13.54	23.03.16	15.45	Machine tripped on Trip oil pressure very low alarm.
		26.03.16	15.59	26.03.16	17.36	Machine tripped as heavy jerk observed in Control room and 160 MVA Tr-i& II tripped at 220 KV end due to tripping of Geeta Colony to Wazirabad ckt.
		30.03.16	13.52	30.03.16	17.41	Machine tripped as heavy jerk observed in Control room and 160 MVA Tr-i& II tripped at 220 KV end due to tripping of Geeta Colony to Wazirabad ckt.
		31.03.16	16.21	31.03.16	16.57	Machine tripped on Trip oil pressure very low alarm.
STG-2	30	02.03.15	12.40	04.04.15	15.59	Stopped due to low demand and high frequency
		04.04.15	16.05	04.04.15	17.38	
		04.04.15	18.10	15.04.15	15.20	
		16.04.15	00.55	21.04.15	14.57	
		27.04.15	15.00	06.05.15	13.32	
		12.05.15	11.18	12.05.15	12.11	Machine tripped on reverse power operation
		12.05.15	12.30	22.05.15	14.55	Machine tripped on axial shift very high
		22.05.15	15.40	22.05.15	16.48	Machine tripped due to jerk
		23.05.15	14.00	12.06.15	17.56	Machine tripped on axile shift very high
		13.06.15	14.40	13.06.15	23.59	Machine tripped on grid disturbance and further Stopped due to low demand and high frequency
		14.06.15	00.00	02.07.15	13.15	Stopped due to low demand and high frequency
		02.07.15	13.15	02.07.15	22.58	Stopped due to diaphragm breakup
		03.07.15	00.53	03.07.15	02.42	Machine tripped as GT-4 tripped due to loss of exciation
		04.07.15	19.20	08.08.15	02.18	Stopped due to low demand and high frequency
		08.08.15	02.18	12.08.15	09.47	Machine tried to synchronise but tripped on generator stator earth fault
		13.08.15	20.52	13.08.15	23.59	Stopped due to low demand and high frequency
		14.08.15	00.00	14.08.15	12.30	Machine could not be taken on load due to heavy vibration in turbine
		14.08.15	12.30	20.1.16	15:15	Stopped due to low demand and high frequency
		20.1.16	15:15	29.1.16	14:00	Both GT-3 & 4 are not available.
		29.1.16	14:00	Contd.		M/c cleared from maintainence side but not taken on load due to low schedule from SLDC.

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
STG-3	30	08.05.15	04.55	08.05.15	08.15	Machine tripped due to generator back up impedance relay
		22.05.15	15.40	22.05.15	19.05	Machine tripped due to jerk
		13.06.15	14.40	13.06.15	16.50	Machine tripped due to grid disturbance and further Stopped due to low demand and high frequency
		21.06.15	11.15	22.06.15	11.05	Stopped due to low demand and high frequency
		24.06.15	01.46	24.06.15	03.05	Machine tripped due to tripping of 20MVA tr.
		25.06.15	07.30	26.06.15	14.58	Stopped due to low demand and high frequency
		04.07.15	12.20	04.07.15	15.30	machine tripped due to durm level high
		10.07.15	21.10	07.07.15	22.25	Heavy jerk observed in control room and machine tripped
		14.07.15	03.50	10.07.15	05.52	Machine tripped on sudden jerk observed in ontrol room
		17.07.15	08.20	14.07.15	09.36	Machine tripped on sudden jerk observed in control room
		23.07.15	13.13	17.07.15	17.15	machine tripped due to islanding from 220side PPS-1
		01.08.15	07.27	23.07.15	16.30	Machine triped on false alarm of boiler trip
		01.08.15	16.30	01.08.15	17.18	HRSG #6 made parallel with HRSG-5
		02.08.15	01.47	02.08.15	04.25	machine tripped on false alarm of inlet steam temp low
		02.08.15	04.25	02.08.15	04.40	HRSG-5 made parallel with HRSG -6
		05.08.15	11.10	05.08.15	13.23	Machine tripped on low vaccum
		06.08.15	18.02	07.08.15	01.40	Machine tripped on heavy jerk
		07.08.15	17.15	15.08.15	23.59	Machine tripped as the turbovisiory monitor trip with flash
		16.08.15	00.00	22.08.15	16.45	Stopped due to low demand and high frequency
		22.08.15	16.45	30.08.15	16.00	Stopped to attend smoke from bearing no -1 and control valve
		30.08.15	16.00	02.09.15	19.44	Stopped due to low demand and high frequency
		09.09.15	11.42	09.09.15	13.58	Machine tripped as both 160 MVA Transformer I&II tripped
		09.09.15	16.47	09.09.15	17.40	Machine tripped on Exhaust steam pressure very high.
		13.09.15	12.50	13.09.15	14.10	Machine tripped as both 160 MVA Transformer I&II tripped
		17.09.15	09.42	17.09.15	10.35	Machine tripped manually as the GT#6 came on FSNL
		19.09.15	05.25	19.09.15	05.58	Machine tripped as the GT#6 came on FSNL
		22.09.15	16.17	22.09.15	17.04	Machine tripped as the GT#6 came on FSNL
		09.10.15	03.50	09.10.15	05.20	Machine tripped due to tripping of GT
		03.11.15	02:01	03.11.15	02:55	Machine tripped due to heavy jerk as 11 KV feeder from GT to Sen Nursing Home nallah tripped.
		05.11.15	02:14	07.01.16	08:15	Stopped due to low demand and high frequency
		07.01.16	12:05	08.01.16	08:31	
		08.01.16	12:00	08.01.16	13:45	Machine tripped due to Exhaust Steam pressure very high.
		08.01.16	16:00	28.01.16	03:40	Stopped due to low demand and high frequency
		29.01.16	09:42	29.01.16	11:32	Machine stopped to attend drum level of HRSG#5.
		08.02.16	14.56	08.02.16	15.31	M/c tripped due to control oil press. very low.
		19.02.16	17.36	19.02.16	18.30	M/c tripped on Drum level very high alarm as feed control valve FD-7 malfunctioned.
		01.03.16	16.21	01.03.16	18.17	Machine tripped as both 160 MVA Tr-I & II tripped at 220 KV end.
		09.03.16	16.24	09.03.16	17.18	Machine tripped as both 160 MVA Tr-I & II tripped at 220 KV end.
		13.03.16	16.02	13.03.16	17.12	Machine tripped as both 160 MVA Tr-I & II tripped at 220 KV end.
		14.03.16	18.43	14.03.16	20.37	Machine tripped as GT#5 tripped
		19.03.16	11.40	19.03.16	18.15	Machine stopped manually due to smoke from BB-1 turbine.
		19.03.16	18.15	Contd		machine not taken on load due to less schedule from SLDC

## (C) PRAGATI

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	104	19.04.15	11.00	20.04.15	05.54	Stopped due to low demand and high frequency
		06.05.15	09.13	06.05.15	12.22	Stopped by DTL to attend hot spot
		10.05.15	07.21	10.05.15	17.13	Stopped due to low demand and high frequency
		28.05.15	04.37	28.05.15	08.37	Unit tripped due to grid disturbance
		06.05.15	09.13	06.05.15	12.22	Unit stopped as desired by DTL to attend hot spot
		10.05.15	07.21	10.05.15	17.13	Stopped due to low demand and high frequency
		28.05.15	04.37	28.05.15	08.37	Unit tripped due to grid disturbance
		18.09.15	14.57	18.09.15	16.26	Unit tripped on internal fault
		19.09.15	15.24	19.09.15	18.42	
		20.09.15	13.08	20.09.15	15.20	
		26.09.15	18.07	26.09.15	19.52	Unit tripped due to grid disturbance
		12.10.15	22.06	13.10.15	00.31	Unit tripped due to bus -1 dead
		13.10.15	12.58	13.10.15	13.55	
		07.11.15	10.55	07.11.15	20.53	GT-1 stopped after swaping of GT-2 for testing
		21.11.15	15.25	21.11.15	16.21	GT-1 tripped due to bus -I died
		08.01.16	04.46	08.01.16	05.15	Unit tripped on grid disturbance
		08.01.16	09.37	08.01.16	11.13	Unit tripped on grid disturbance
		10.01.16	09.19	10.01.16	18.00	Unit stopped to change inlet air filters
		10.01.16	18.00	11.01.16	06.23	Stopped due to low demand and high frequency
		12.01.16	18.27	19.01.16	11.17	
		24.01.16	23.18	27.01.16	10.00	Unit was unavailable as it was under pre-outage performance testing by OEM. Outage continued due to non scheduling
		27.01.16	10:00	28.01.16	16.00	
		28.01.16	16.00	30.01.16	06.24	Stopped due to low demand and high frequency
		03.03.16	00.00	28.03.16	07.11	
		28.03.16	16.31	Contd		
2	104	01.04.15	00.00	19.04.15	07.47	Stopped due to low demand and high frequency
		24.04.15	15.09	24.04.15	16.31	Unit tripped on internal fault
		16.05.15	00.00	18.05.15	08.44	Stopped due to low demand and high frequency
		20.05.15	04.01	20.05.15	10.05	
		16.05.15	00.00	18.05.15	08.44	
		20.05.15	04.01	20.05.15	10.05	
		01.09.15	16.06	01.09.15	16.24	
		09.09.15	11.43	09.09.15	11.59	
		13.09.15	12.53	13.09.15	13.33	
		22.09.15	17.00	07.11.15	09.35	Stopped due to low demand and high frequency
		07.11.15	21.52	07.01.16	04.44	
		08.01.16	16.38	10.01.16	07.59	
		19.01.16	12.38	22.01.16	11.59	
		22.01.16	15.58	24.01.16	21.11	
		30.01.16	14.45	06.02.16	24.00	Stopped due to low demand and high frequency
		07.02.16	00.00	24.03.16	17.08	
		24.03.16	17.16	26.03.16	15.15	
		26.03.16	15.15	26.03.16	20.00	
		26.03.16	20.00	Contd		Machine was unavailable due to testing
		26.03.16	20.00	Contd		Stopped due to low demand and high frequency

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
STG	122	06.05.15	05.13	06.05.15	09.05	Stopped by DTL to attend hot spot
		10.05.15	16.48	10.05.15	18.42	Stopped due to low demand and high frequency
		28.05.15	04.37	28.05.15	07.26	Unit tripped due to grid disturbance
		06.05.15	05.13	06.05.15	09.05	Unit stopped by DTL to attend hot spot
		10.05.15	16.48	10.05.15	18.42	Stopped due to low demand and high frequency
		28.05.15	04.37	28.05.15	07.26	Unit tripped due to grid disturbance
		26.09.15	18.07	26.09.15	21.31	
		12.10.15	22.06	13.10.15	02.45	Stopped to attend internal fault
		13.10.15	02.45	13.10.15	22.07	
		20.10.15	04.16	21.10.15	17.40	STG tripped due to grid disturbance
		21.11.15	15.16	21.11.15	18.44	
		08.01.16	04.33	08.01.16	14.52	Unit stopped to attend internal fault
		24.01.16	05.48	24.01.16	11.28	
		23.02.16	17.45	23.02.16	21.43	Machine stopped for excitor sole plate replacement
		03.03.16	00.00	Contd		

(D) BADARPUR THERMAL POWER STATION

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	95	29.10.14	15.15	contd		Stopped due to low demand and high frequency. From 01.01.2016, unit was closed due to not meeting the pollution norms as per DPCC directions
2	95	31.10.14	15.30	21.04.15	13.44	Stopped due to low demand and high frequency
		01.05.15	14.55	07.05.15	01.27	
		07.05.15	13.07	07.05.15	20.57	AVR & Excitation system
		11.05.15	13.57	05.08.15	23.59	Stopped due to low demand and high frequency
		06.08.15	00.00	23.09.15	04.41	
		24.09.15	19.52	Contd.		Stopped due to low demand and high frequency. From 01.01.2016, unit was closed due to not meeting the pollution norms as per DPCC directions
3	95	31.03.15	09.55	01.04.15	16.00	Economizer tube leakage
		01.04.15	16.00	20.04.15	22.50	
		15.05.15	17.20	27.05.15	22.09	
		13.06.15	20.34	19.06.15	00.00	Stopped due to low demand and high frequency
		20.06.15	00.00	20.06.15	17.35	AVR & Excitaiton system problem
		20.06.15	08.16	04.07.15	20.41	
		17.07.15	20.52	23.07.15	06.28	Stopped due to low demand and high frequency
		29.07.15	12.59	29.07.15	14.59	Differential protection
		29.07.15	14.59	01.08.15	19.35	
		03.08.15	20.38	20.09.15	12.40	Stopped due to low demand and high frequency
		27.09.15	03.17	28.09.15	06.30	Gen. , auxiliaries and electrical system problem
		02.10.15	18.16	03.10.15	13.47	Stopped due to low demand and high frequency.
4	210	09.10.15	01.00	Contd		Stopped due to low demand and high frequency. From 01.01.2016, unit was closed due to not meeting the pollution norms as per DPCC directions
		05.04.15	11.00	06.04.15	18.48	Water wall leakage
		10.05.15	00.34	10.05.15	06.45	AVR & Excitation system
		11.05.15	15.18	11.05.15	17.36	Human error vaccum low
		18.05.15	06.12	18.05.15	12.33	6.6kv breaker problem
		31.05.15	23.31	03.06.15	13.37	6.6kv breaker problem
		03.06.15	13.37	06.06.15	05.03	Stopped due to low demand and high frequency
		05.08.15	08.11	05.08.15	14.29	Stopped due auxillaires & electrical system problem
		10.09.15	13.53	13.09.15	02.49	Boiler and auxiliaries problem

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
4	210	13.09.15	03.30	13.09.15	12.11	C&I System problem
		20.09.15	01.48	10.10.15	00.56	Out due to planned outages
		10.10.15	01.26	02.12.15	01.04	Stopped due to low demand and high frequency
		02.12.15	05.38	02.12.15	08.02	LT Breaker problem
		05.12.15	08.45	05.12.15	11.57	C & I Problem
		09.12.15	07.05	12.12.15	14.30	PA Fan B Motor problem
		12.12.15	14.30	Contd		Stopped due to low demand and high frequency. From 01.01.2016, DPCC did not allow to operate the unit to control pollution level.
5	210	01.04.15	00.00	10.05.15	21.04	Planned shutdown
		13.05.15	00.30	13.05.15	12.55	Human error durm level low
		26.05.15	06.47	26.05.15	11.04	Leakage in BFP a disch flow transmitter
		05.06.15	21.14	08.06.15	17.30	Super heater leakage
		08.06.15	17.30	09.06.15	01.40	Stopped due to low demand and high frequency
		01.08.15	13.56	03.08.15	13.40	Stopped due to boiler and auxillzaries
		04.10.15	19.37	04.10.15	23.20	C & I System
		12.10.15	22.05	13.10.15	01.28	Transmission lines / grid disturbance
		01.12.15	21.41	03.12.15	05.25	Water wall leakage
		03.12.15	05.25	09.12.15	06.28	Stopped due to low demand and high frequency
		24.01.16	11.23	25.01.16	00.43	G.T. Bushing replacement

(E) BAWANA CCGT POWER STATION

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	216	19.01.15	14.26	25.04.15	07.40	G.T.-I compressor stalled detected STG-I simultaneously tripped
		01.05.15	14.04	01.05.15	16.07	Unit tripped on customer trip alarm
		15.05.15	14.24	25.05.15	11.00	Stopped due to low demand and high frequency
		25.05.15	11.00	04.06.15	18.15	Bushing change of G.T.-I transformer
		04.06.15	18.15	16.06.15	11.29	Stopped due to low demand and high frequency
		22.06.15	15.30	22.06.15	21.00	Unit tripped on pole discrepancy relay
		22.06.15	21.00	14.07.15	03.10	Stopped due to low demand and high frequency
		16.07.15	02.18	Contd.		Machine tripped due to compressor stalling alarm
2	216	13.04.15	16.18	13.04.15	17.48	Tripping of 2DA emergency section bus coupler, resultend GT-2 tripped on low lube oil pressure
		25.04.15	23.17	15.05.15	06.50	Stopped due to low demand and high frequency
		30.05.15	19.04	09.06.15	09.00	
		09.06.15	09.00	21.06.15	11.00	Unit taken under CI
		21.06.15	11.00	22.06.15	16.37	Stopped due to low demand and high frequency
		11.07.15	15.12	16.07.15	06.14	
		19.07.15	10.22	17.09.15	00.42	
		29.09.15	00.55	30.09.15	01.42	
		03.10.15	00.12	06.10.15	14.42	
		29.10.15	00.54	31.10.15	01.42	Due to ambient conditions DP started icreasing and machine desynch
		07.11.15	09.47	07.11.15	24.00	
		08.11.15	00.00	08.01.16	11.50	
		26.01.16	00.00	27.01.16	00.57	
		01.02.16	00.00	29.02.16	23.59	Stopped due to low demand and high frequency

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
2	216	01.03.16	13.18	01.03.16	16.22	Machine tripped on closure of auxiliary stop valve due to gas pressure P 2 reduced & turbime tripped on high exhaust temp. spread.
		05.03.16	21.14	07.01.16	02.03	Stopped due to low demand and high frequency
		24.03.16	00.00	Contd.		
3	216	24.03.15	04.47	01.09.15	10.00	Tripped due to G.T. -3 generator transformer engulfed in fire with huge blast
		01.09.15	10.00	31.10.15	23.59	
		01.11.15	00.00	09.11.15	01.25	Stopped due to low demand and high frequency
		09.11.15	06.42	09.11.15	09.59	G.T.-3 performance heater leakage
		18.11.15	18.27	18.11.15	21.26	LA damage in DTL 220kV Bawana- DSIDC Bawana Ckt.
		28.11.15	18.23	08.01.16	09.14	
		08.01.16	11.20	08.01.16	23.15	
		08.01.16	23.15	Contd.		
4	216	01.04.15	00.00	05.05.15	17.00	Stopped due to low demand and high frequency
		05.05.15	17.00	19.05.15	21.00	Bushing change of G.T.-4 Transformer
		19.05.15	21.00	30.05.15	19.04	
		14.06.15	02.00	13.07.15	14.42	Stopped due to low demand and high frequency
		17.07.15	00.23	15.07.15	11.15	GT-4 exhaust spread high
		15.07.15	11.15	22.07.15	12.04	
		25.07.15	21.49	04.09.15	00.03	Stopped due to low demand and high frequency
		16.09.15	19.38	25.09.15	24.00	Unit tripped due to the cold gas temp high
		26.09.15	00.00	30.11.15	23.59	Stopped due to low demand and high frequency
		16.12.15	20.23	16.12.15	22.54	Tripped due to internal fault
		08.01.16	01.47	08.01.16	23.15	
		08.01.16	23.15	31.03.16	23.59	Stopped due to low demand and high frequency
STG-1	254	13.04.15	16.18	13.04.15	19.16	Unit stopped due to tripping of G.T. -2
		20.04.15	13.32	20.04.15	15.31	Unit tripped due to PDMX appeared on GRP panel
		01.05.15	14.10	01.05.15	17.29	Machine stopped due to G.T.-1 tripped
		02.05.15	16.29	02.05.15	22.34	Unit tripped on HP exhaust steam temperature very high
		30.05.15	19.10	04.06.15	18.00	Stopped due to low demand and high frequency
		04.06.15	18.00	14.06.15	22.00	STG-1 for bushing change
		14.06.15	22.00	16.06.15	20.27	Stopped due to low demand and high frequency
		22.06.15	15.38	22.06.15	20.12	STG tripped due to tripping of Unit -I
		01.07.15	20.56	01.07.15	21.50	STG -1 tripped because of shaft voltage high
		11.07.15	15.15	14.07.15	06.55	Stopped due to low demand and high frequency
		16.07.15	02.18	16.07.15	10.59	Tripped subsequent to GT-1 and then synch with GT-2
		16.07.15	10.28	17.09.15	09.07	
		29.09.15	00.55	30.09.15	07.53	
		03.10.15	00.12	06.10.15	21.50	
		29.10.15	00.55	31.10.15	07.53	
		07.11.15	09.48	07.11.15	24.00	G.T.-2 DP increased subsequently machine desynchronized
		08.11.15	00.00	08.01.16	11.50	
		08.01.16	11.50	08.01.16	22.59	
		26.01.16	00.05	27.01.16	06.50	
		27.01.16	06.50	29.02.16	23.59	
		01.03.16	13.25	01.03.16	17.22	Machine tripped manually due to HRSG trip condition not fulfilled.

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
STG-1	254	03.03.16	16:03	03.03.16	18:53	Machine tripped due to oil leakage from inlet supply line of IPCV - 1.
		05.03.16	21:18	07.03.16	06:25	Stopped due to low demand and high frequency
		12.03.16	13:28	12.03.16	15:08	Unit tripped on generator roter earth fault relay on GRP-1,GRP-2 & GRP-3.
		12.03.16	17:21	12.03.16	23:14	Unit tripped on generator roter earth fault relay on GRP-1 & GRP-3.
		24.03.16	00:00	27.03.16	23.59	Stopped due to low demand and high frequency
		28.03.16	00:00	Contd.		Planned Shut down.
STG-2	254	01.04.15	00:00	05.05.15	17.00	Stopped due to low demand and high frequency
		19.05.15	21:00	30.05.15	19.04	
		03.06.15	18:26	03.06.15	20.33	STG-2 tripped due to CW Problem
		14.06.15	02:00	14.07.15	00:03	Stopped due to low demand and high frequency
		14.07.15	00:23	15.07.15	11.15	Tripped subsequent to GT-4
		15.07.15	11.15	22.07.15	20.23	Stopped due to low demand and high frequency
		25.07.15	20.38	25.07.15	21.38	STG -2 tripped
		25.07.15	21.49	04.09.15	07.20	Stopped due to low demand and high frequency
		16.09.15	19.38	24.09.15	24.00	Unit tripped as GT-4 tripped due to the cold gas temp high
		26.09.15	00:00	09.11.15	14.29	Stopped due to low demand and high frequency
		18.11.15	18.32	18.11.15	23.50	Unit tripped due to tripping of G.T.-3
		15.12.15	19.15	16.12.15	00.18	STG -2 tripped on internal fault
		16.12.15	20.23	17.12.15	02.04	GT-4 tripped subsequently STG-2 tripped
		17.12.15	03.36	17.12.15	11.33	STG -2 tripped on internal fault
		08.01.16	11.20	08.01.16	23.15	Stopped due to low demand and high frequency
		08.01.16	23.15	27.03.16	23.59	
		28.03.16	00:00	Contd.		Planned shutdown

(F) RITHALA POWER STATION

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	31.8	19.03.13	17:32	Contd.		No gas availability

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
2	31.8	07.06.13	22:41	Contd.		No gas availability

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
STG	31.8	07.06.13	22:38	Contd.		Due to non operaton of GTs

## 9 POWER SUPPLY POSITION OF DELHI DURING 2015-16

### 9.1 Power supply position during the month of April 2015

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	<b>SINGRAULI</b>	92.788	89.818	90.727	87.823
2	<b>RIHAND-I</b>	59.319	57.419	53.629	51.912
3	<b>RIHAND-II</b>	51.214	49.568	46.304	44.815
4	<b>RIHAND-III</b>	91.452	88.528	82.261	79.632
5	<b>UNCHAHAR-I</b>	16.279	15.759	12.222	11.832
6	<b>UNCHAHAR-II</b>	32.184	31.155	25.145	24.340
7	<b>UNCHAHAR-III</b>	3.326	3.213	1.449	1.400
8	<b>DADRI (TH)-I</b>	356.293	344.905	272.927	264.207
9	<b>DADRI(TH)-II</b>	467.381	452.520	372.093	360.250
10	<b>FARAKA</b>	14.650	14.182	11.725	11.350
11	<b>KHELGAON</b>	25.178	24.371	21.561	20.871
12	<b>KHELGAON-II</b>	106.488	103.084	92.887	89.922
13	<b>ANTA(GT)</b>	7.655	7.412	4.109	3.978
14	<b>ANTA(Liquid)</b>	10.850	10.506	0.000	0.000
15	<b>ANTA(RLNG)</b>	3.797	3.673	0.000	0.000
16	<b>AURIYA(GT)</b>	23.349	22.597	8.171	7.908
17	<b>AURIYA(Liquid)</b>	27.682	26.802	0.000	0.000
18	<b>AURIYA(RLNG)</b>	0.046	0.045	0.000	0.000
19	<b>DADRI(GT)</b>	43.868	42.461	16.167	15.649
20	<b>DADRI(Liquid)</b>	19.718	19.094	0.000	0.000
21	<b>DADRI (RLNG)</b>	0.461	0.445	0.000	0.000
22	<b>KOLDAM HEP</b>	0.000	0.000	0.000	0.000
23	<b>TALCHER</b>	0.000	0.000	0.000	0.000
24	<b>TALA</b>	5.229	5.062	5.229	5.062
A	<b>TOTAL NTPC STATIONS (TOTAL 1 - 24)</b>	<b>1459.208</b>	<b>1412.618</b>	<b>1116.607</b>	<b>1080.952</b>
	<b>NHPC STATIONS</b>				
25	<b>TANAKPUR</b>	3.314	3.208	1.016	0.984
26	<b>CHAMERA-I</b>	27.381	26.503	8.400	8.131
27	<b>CHAMERA-II</b>	23.696	22.936	7.270	7.037
28	<b>CHAMERA-III</b>	15.201	14.713	4.663	4.514
29	<b>BAIRA SUIL</b>	10.916	10.566	3.349	3.241
30	<b>SALAL</b>	48.001	46.467	14.727	14.256
31	<b>DAULI GANGA</b>	8.360	8.093	2.565	2.483
32	<b>DULASTI</b>	28.934	28.008	28.934	28.008
33	<b>URI</b>	37.320	36.127	11.451	11.085
34	<b>URIII</b>	0.000	0.000	0.000	0.000
35	<b>SEWA-II</b>	11.362	10.999	3.486	3.375
36	<b>PARBATI3</b>	5.601	5.421	5.601	5.421
B	<b>TOTAL NHPC STATIONS (TOTAL 25-36)</b>	<b>220.085</b>	<b>213.042</b>	<b>91.463</b>	<b>88.535</b>
37	<b>NAPP</b>	28.402	27.492	28.402	27.492
38	<b>RAPP 'B'</b>	0.000	0.000	0.000	0.000
39	<b>RAPP 'C'</b>	35.852	34.708	35.852	34.708
C	<b>TOTAL NPC (TOTAL 37 - 39)</b>	<b>64.253</b>	<b>62.199</b>	<b>64.253</b>	<b>62.199</b>
D	<b>NATHPA JHAKHRI(SJVNL)</b>	40.494	39.196	30.209	29.240

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
	<b>THDC</b>				
41	<b>TEHRI</b>	21.108	20.433	21.108	20.433
40	<b>KOTESHWAR</b>	9.050	8.761	9.050	8.761
E	<b>TOTAL THDC</b>	<b>30.158</b>	<b>29.194</b>	<b>30.158</b>	<b>29.194</b>
F	<b>JHAJJAR</b>	0.000	0.000	0.000	0.000
G	<b>SASAN</b>	229.552	222.194	228.378	221.059
H	<b>TOTAL CENTRAL SECTOR STATIONS (A+B+C+D+E+F+G)</b>	2043.752	1978.442	1561.068	1511.179
	<b>BILATERAL IMPORT</b>				
(I)	<b>CLP JHAJJAR (TPDDL)</b>	32.856	32.404	32.404	31.373
(ii)	<b>UN-REQUISITIONED SURPLUS</b>	0.254	0.246	0.254	0.246
(iii)	<b>DVC</b>	50.161	49.609	49.609	48.025
(iv)	<b>DVC METHON (TPDDL)</b>	169.420	167.548	167.548	162.206
(v)	<b>JAMMU &amp; KASHMIR</b>	13.596	13.407	13.407	12.978
(vi)	<b>POWER EXCHANGE(IEX)</b>	89.117	86.233	89.117	86.233
(vii)	<b>POWER EXCHANGE (PX)</b>	0.000	0.000	0.000	0.000
I	<b>TOTAL BILATERAL IMPORT (TOTAL i - vii )</b>	355.403	349.446	352.338	341.060
	<b>BILATERAL EXPORT</b>				
(I)	<b>ORISSA</b>	-100.929	-102.052	-102.052	-105.422
(ii)	<b>KERALA</b>	-0.347	-0.354	-0.354	-0.365
(iii)	<b>WEST BENGAL</b>	-24.079	-24.351	-24.351	-25.156
(iv)	<b>TO POWER EXCHANGE (IEX)</b>	-25.162	-25.987	-25.162	-25.987
(v)	<b>TO POWER EXCHANGE (PX)</b>	-16.251	-16.793	-16.251	-16.793
(vi)	<b>TO SHARE PROJECT (HARYANA)</b>	-9.088	-9.388	-9.088	-9.388
(vii)	<b>TO POWER EXCHANGE (PUNJAB)</b>	-5.450	-5.627	-5.450	-5.627
J	<b>TOTAL BILATERAL EXPORT (TOTAL i TO vii )</b>	-181.306	-184.552	-182.708	-188.738
K	<b>NET DRAWAL FROM THE GRID (H+I+J)</b>	2217.849	2143.337	1730.698	1663.501
L	<b>OVER DRAWL(+)/UNDER DRAWAL(-) FROM THE GRID</b>				16.683
	<b>AVAILABILITY FROM OWN SOURCES</b>				
(I)	<b>RAJGHAT POWER HOUSE</b>				17.594
(ii)	<b>GAS TURBINE</b>				65.412
(iii)	<b>PRAGATI</b>				146.484
(iv)	<b>RITHALA</b>				0.000
(v)	<b>BAWANA CCGT</b>				210.829
(vi)	<b>BTPS</b>				144.006
M	<b>TOTAL GENERATION WITHIN DELHI (TOTAL i TO vi)</b>				584.325
	<b>RENEWABLE GENERATION</b>				
(I)	<b>TOWMCL</b>				13.058
(ii)	<b>RENEWABLE SOLAR (TPDDL)</b>				0.195098
(iii)	<b>RENEWABLE SOLAR (BRPL)</b>				0.059070
(iv)	<b>RENEWABLE SOLAR (BYPL)</b>				0.030004
(v)	<b>RENEWABLE SOLAR (NDMC)</b>				0.000
(vi)	<b>NON SOLAR (BYPL)</b>				0.000000
N	<b>TOTAL RENEWABLE GENERATION (TOTAL i - vi)</b>				<b>13.342</b>
O	<b>TOTAL AVAILABILITY WITHIN DELHI ( M + N )</b>				597.667
P	<b>TOTAL CONSUMPTION (K + L + O)</b>				2277.851
Q	<b>LOAD SHEDDING</b>				2.003
R	<b>REQUIREMENT (P + Q )</b>				2262.414
S	<b>% DEPENDENCE ON GRID</b>				73.03
T	<b>AUXILIARY CONSUMPTION OF GENERATION STATIONS WITHIN DELHI</b>				17.440
U	<b>NET CONSUMPTION OF DTL ( P - T )</b>				2260.411

## 9.2 Power supply position during the month of May 2015

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	96.107	93.141	84.402	81.798
2	RIHAND-I	45.167	43.769	33.045	32.025
3	RIHAND-II	88.239	85.518	69.336	67.201
4	RIHAND-III	93.861	90.966	75.826	73.490
5	UNCHAHAR-I	17.196	16.665	10.836	10.502
6	UNCHAHAR-II	33.479	32.447	22.156	21.474
7	UNCHAHAR-III	14.861	14.406	8.479	8.220
8	DADRI (TH)-I	346.453	335.781	252.256	244.490
9	DADRI(TH)-II	546.840	529.976	382.012	370.268
10	FARAKA	13.940	13.510	10.565	10.239
11	KHELGAON	33.585	32.550	23.776	23.044
12	KHELGAON-II	107.249	103.939	81.484	78.973
13	ANTA(GT)	17.452	16.917	9.965	9.660
14	ANTA(Liquid)	10.646	10.315	0.000	0.000
15	ANTA(RLNG)	0.483	0.468	0.000	0.000
16	AURIYA(GT)	19.492	18.888	7.232	7.009
17	AURIYA(Liquid)	32.555	31.553	0.000	0.000
18	AURIYA(RLNG)	0.000	0.000	0.000	0.000
19	DADRI(GT)	46.847	45.396	17.159	16.630
20	DADRI(Liquid)	18.938	18.360	0.000	0.000
21	DADRI (RLNG)	0.000	0.000	0.000	0.000
22	KOLDAM HEP	0.000	0.000	0.000	0.000
23	TALCHER	0.000	0.000	0.000	0.000
24	TALA	9.551	9.257	9.551	9.257
A	<b>TOTAL NTPC STATIONS (TOTAL 1 - 24)</b>	<b>1592.941</b>	<b>1543.822</b>	<b>1098.081</b>	<b>1064.279</b>
	<b>NHPC STATIONS</b>				
25	TANAKPUR	4.954	4.801	1.520	1.473
26	CHAMERA-I	30.539	29.596	9.369	9.080
27	CHAMERA-II	29.691	28.776	9.110	8.829
28	CHAMERA-III	21.564	20.900	6.614	6.410
29	BAIRA SUIL	13.451	13.036	4.126	3.999
30	SALAL	54.987	53.293	16.871	16.351
31	DAULI GANGA	16.526	16.017	5.071	4.915
32	DULASTI	36.910	35.772	36.869	35.732
33	URI	38.967	37.765	11.956	11.587
34	URIII	0.000	0.000	0.000	0.000
35	SEWA-II	11.270	10.922	3.458	3.351
36	PARBATI3	10.595	10.270	10.595	10.270
B	<b>TOTAL NHPC STATIONS (TOTAL 25-36)</b>	<b>269.454</b>	<b>261.148</b>	<b>115.560</b>	<b>111.998</b>
37	NAPP	30.525	29.584	30.505	29.564
38	RAPP 'B'	0.000	0.000	0.000	0.000
39	RAPP 'C'	34.841	33.766	34.841	33.766
C	<b>TOTAL NPC (TOTAL 37 - 39)</b>	<b>65.366</b>	<b>63.350</b>	<b>65.345</b>	<b>63.330</b>
D	<b>NATHPA JHAKHRI(SJVNL)</b>	<b>101.483</b>	<b>98.362</b>	<b>39.751</b>	<b>38.524</b>

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
<b>THDC</b>					
41	TEHRI	23.886	23.149	23.886	23.149
40	KOTESHWAR	11.298	10.949	11.298	10.949
E	TOTAL THDC	<b>35.183</b>	<b>34.098</b>	<b>35.183</b>	<b>34.098</b>
F	JHAJJAR	0.000	0.000	0.000	0.000
G	SASAN	244.223	236.688	235.225	227.969
H	TOTAL CENTRAL SECTOR STATIONS (A+B+C+D+E+F+G)	2308.650	2237.468	1589.145	1540.198
<b>BILATERAL IMPORT</b>					
(I)	MADHYA PRADESH	0.359	0.354	0.354	0.343
(ii)	CLP JHAJJAR (TPDDL)	15.328	15.129	15.129	14.668
(iii)	DVC	231.692	229.408	229.408	222.348
(iv)	DVC METHON (TPDDL)	174.433	172.701	172.701	167.376
(v)	DVC MEJIA - BYPL	35.657	35.313	35.313	34.234
(vi)	HIMACHAL PRADESH	144.006	141.724	141.724	137.374
(vii)	JAMMU & KASHMIR	221.869	218.951	218.951	212.216
(viii)	POWER EXCHANGE(IEX)	117.632	114.017	117.632	114.017
(ix)	POWER EXCHANGE (PX)	0.000	0.000	0.000	0.000
I	TOTAL BILATERAL IMPORT (TOTAL i - ix )	940.976	927.597	931.213	902.577
<b>BILATERAL EXPORT</b>					
(I)	UTTAR PRADESH	-10.148	-10.350	-10.350	-10.684
(ii)	TO POWER EXCHANGE (IEX)	-31.890	-32.904	-31.890	-32.904
(iii)	TO POWER EXCHANGE (PX)	-6.778	-6.995	-6.778	-6.995
(iv)	TO SHARE PROJECT (HARYANA)	-16.799	-17.333	-16.799	-17.333
(v)	TO POWER EXCHANGE (PUNJAB)	-12.432	-12.825	-12.432	-12.825
J	TOTAL BILATERAL EXPORT (TOTAL i TO v )	-78.047	-80.406	-78.249	-80.740
K	NET DRAWAL FROM THE GRID (H+I+J)	3171.579	3084.660	2442.109	2362.035
L	OVER DRAWL(+)/UNDER DRAWAL(-) FROM THE GRID				-14.334
<b>AVAILABILITY FROM OWN SOURCES</b>					
(I)	RAJGHAT POWER HOUSE				29.000
(ii)	GAS TURBINE				72.836
(iii)	PRAGATI				198.884
(iv)	RITHALA				0.000
(v)	BAWANA CCGT				217.410
(vi)	BTPS				229.114
M	TOTAL GENERATION WITHIN DELHI (TOTAL i TO vi)				747.244
<b>RENEWABLE GENERATION</b>					
(I)	TOWMCL				14.086
(ii)	RENEWABLE SOLAR (TPDDL)				0.226400
(iii)	RENEWABLE SOLAR (BRPL)				0.033241
(iv)	RENEWABLE SOLAR (BYPL)				0.029890
(v)	RENEWABLE SOLAR (NDMC)				0.000
(vi)	NON SOLAR (BYPL)				0.000000
N	TOTAL RENEWABLE GENERATION (TOTAL i - vi)				<b>14.376</b>
O	TOTAL AVAILABILITY WITHIN DELHI ( M + N )				761.620
P	TOTAL CONSUMPTION (K + L + O)				3109.321
Q	LOAD SHEDDING				5.323
R	REQUIREMENT (P + Q )				3092.023
S	% DEPENDENCE ON GRID				75.97
T	AUXILIARY CONSUMPTION OF GENERATION STATIONS WITHIN DELHI				22.621
U	NET CONSUMPTION OF DTL ( P - T )				3086.700

### 9.3 Power supply position during the month of June 2015

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	<b>SINGRAULI</b>	95.723	93.037	82.041	79.735
2	<b>RIHAND-I</b>	35.490	34.492	25.896	25.166
3	<b>RIHAND-II</b>	85.825	83.416	67.583	65.682
4	<b>RIHAND-III</b>	86.539	84.113	68.557	66.631
5	<b>UNCHAHAR-I</b>	16.547	16.083	11.324	11.005
6	<b>UNCHAHAR-II</b>	32.165	31.262	21.229	20.631
7	<b>UNCHAHAR-III</b>	19.900	19.341	13.937	13.545
8	<b>DADRI (TH)-I</b>	398.305	387.123	262.844	255.462
9	<b>DADRI(TH)-II</b>	527.558	512.752	410.060	398.536
10	<b>FARAKA</b>	12.304	11.960	10.011	9.731
11	<b>KHELGAON</b>	25.869	25.143	19.299	18.756
12	<b>KHELGAON-II</b>	106.586	103.595	84.312	81.939
13	<b>ANTA(GT)</b>	18.147	17.638	14.875	14.456
14	<b>ANTA(Liquid)</b>	10.544	10.248	0.210	0.204
15	<b>ANTA(RLNG)</b>	0.000	0.000	0.000	0.000
16	<b>AURIYA(GT)</b>	21.003	20.413	12.572	12.217
17	<b>AURIYA(Liquid)</b>	28.504	27.704	0.214	0.208
18	<b>AURIYA(RLNG)</b>	0.000	0.000	0.000	0.000
19	<b>DADRI(GT)</b>	27.872	27.091	19.007	18.471
20	<b>DADRI(Liquid)</b>	35.059	34.074	0.728	0.707
21	<b>DADRI (RLNG)</b>	0.000	0.000	0.000	0.000
22	<b>KOLDAM HEP</b>	0.000	0.000	0.000	0.000
23	<b>TALCHER</b>	0.000	0.000	0.000	0.000
24	<b>TALA</b>	15.254	14.825	15.282	14.852
A	<b>TOTAL NTPC STATIONS (TOTAL 1 - 24)</b>	<b>1599.193</b>	<b>1554.311</b>	<b>1139.983</b>	<b>1107.934</b>
	<b>NHPC STATIONS</b>				
25	<b>TANAKPUR</b>	5.944	5.776	3.095	3.007
26	<b>CHAMERA-I</b>	28.721	27.914	14.473	14.064
27	<b>CHAMERA-II</b>	27.411	26.640	13.889	13.497
28	<b>CHAMERA-III</b>	20.200	19.632	10.211	9.922
29	<b>BAIRA SUIL</b>	9.225	8.966	4.710	4.577
30	<b>SALAL</b>	52.408	50.938	26.151	25.413
31	<b>DAULI GANGA</b>	19.351	18.805	10.276	9.985
32	<b>DULASTI</b>	34.718	33.744	34.718	33.744
33	<b>URI</b>	37.401	36.351	18.678	18.151
34	<b>URIII</b>	5.506	5.349	5.892	5.724
35	<b>SEWA-II</b>	8.899	8.649	4.578	4.449
36	<b>PARBATI3</b>	11.801	11.468	11.801	11.468
B	<b>TOTAL NHPC STATIONS (TOTAL 25-36)</b>	<b>261.583</b>	<b>254.232</b>	<b>158.471</b>	<b>154.001</b>
37	<b>NAPP</b>	29.238	28.417	29.238	28.417
38	<b>RAPP 'B'</b>	0.000	0.000	0.000	0.000
39	<b>RAPP 'C'</b>	36.756	35.724	36.744	35.712
C	<b>TOTAL NPC (TOTAL 37 - 39)</b>	<b>65.994</b>	<b>64.141</b>	<b>65.982</b>	<b>64.130</b>
D	<b>NATHPA JHAKHRI(SJVNL)</b>	104.358	101.425	32.017	31.117
	<b>THDC</b>				
41	<b>TEHRI</b>	24.683	23.990	23.661	22.997
40	<b>KOTESHWAR</b>	12.178	11.836	12.178	11.836
E	<b>TOTAL THDC</b>	<b>36.861</b>	<b>35.826</b>	<b>35.839</b>	<b>34.833</b>
F	<b>JHAJJAR</b>	0.000	0.000	0.000	0.000
G	<b>SASAN</b>	262.592	255.225	253.803	246.679

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
H	<b>TOTAL CENTRAL SECTOR STATIONS (A+B+C+D+E+F+G)</b>	2330.581	2265.162	1686.095	1638.693
	<b>BILATERAL IMPORT</b>				
(I)	<b>ASSAM</b>	3.887	3.815	3.815	3.709
(ii)	<b>MEGHALAYA</b>	31.442	30.956	30.956	30.092
(iii)	<b>MADHYA PRADESH</b>	28.149	27.683	27.683	26.908
(iv)	<b>RASJASTHAN (SOLAR) BRPL</b>	2.818	2.785	2.785	2.706
(v)	<b>RASJASTHAN (SOLAR) BYPL</b>	2.818	2.785	2.785	2.706
(vi)	<b>RASJASTHAN (SOLAR) TPDDL</b>	3.101	3.065	3.065	2.979
(vii)	<b>CLP JHAJJAR (TPDDL)</b>	30.909	30.548	30.548	29.683
(viii)	<b>DVC</b>	228.953	226.765	226.765	220.410
(ix)	<b>DVC METHON (TPDDL)LT-06</b>	183.379	181.626	181.626	176.531
(x)	<b>DVC MEJIA -BYPL</b>	70.750	70.075	70.075	68.107
(xi)	<b>HIMACHAL PRADESH</b>	126.284	124.837	124.837	121.350
(xii)	<b>JAMMU &amp; KASHMIR</b>	145.314	143.652	143.652	139.644
(xiii)	<b>POWER EXCHANGE(IEX)</b>	95.393	92.698	95.393	92.698
(xiv)	<b>POWER EXCHANGE (PX)</b>	0.000	0.000	0.000	0.000
I	<b>TOTAL BILATERAL IMPORT (TOTAL i - xiv )</b>	953.197	941.290	943.985	917.525
	<b>BILATERAL EXPORT</b>				
(I)	<b>UTTAR PRADESH</b>	-2.137	-2.174	-2.174	-2.234
(ii)	<b>JAMMU &amp; KASHMIR</b>	-0.509	-0.516	-0.516	-0.531
(iii)	<b>MEGHALAYA</b>	-0.093	-0.095	-0.095	-0.098
(iv)	<b>TO POWER EXCHANGE (IEX)</b>	-43.228	-44.475	-43.228	-44.475
(v)	<b>TO POWER EXCHANGE (PX)</b>	-6.817	-7.013	-6.817	-7.013
(vi)	<b>TO SHARE PROJECT (HARYANA)</b>	-15.272	-15.713	-15.272	-15.713
(vii)	<b>TO POWER EXCHANGE (PUNJAB)</b>	-15.571	-16.020	-15.571	-16.020
J	<b>TOTAL BILATERAL EXPORT (TOTAL i - vii )</b>	-83.627	-86.007	-83.673	-86.084
K	<b>NET DRAWAL FROM THE GRID (H+I+J)</b>	3200.152	3120.446	2546.406	2470.134
L	<b>OVER DRAWL(+)/UNDER DRAWAL(-) FROM THE GRID</b>				-5.880
	<b>AVAILABILITY FROM OWN SOURCES</b>				
(I)	<b>RAJGHAT POWER HOUSE</b>				0.000
(ii)	<b>GAS TURBINE</b>				45.525
(iii)	<b>PRAGATI</b>				175.958
(iv)	<b>RITHALA</b>				0.000
(v)	<b>BAWANA CCGT</b>				181.519
(vi)	<b>BTPS</b>				228.389
M	<b>TOTAL GENERATION WITHIN DELHI (TOTAL i TO vi)</b>				631.391
	<b>RENEWABLE GENERATION</b>				
(I)	<b>TOWMCL</b>				13.220
(ii)	<b>RENEWABLE SOLAR (TPDDL)</b>				0.173084
(iii)	<b>RENEWABLE SOLAR (BRPL)</b>				0.036243
(iv)	<b>RENEWABLE SOLAR (BYPL)</b>				0.026862
(v)	<b>RENEWABLE SOLAR (NDMC)</b>				0.000
(vi)	<b>NON SOLAR (BYPL)</b>				0.000000
N	<b>TOTAL RENEWABLE GENERATION (TOTAL i - vi)</b>				<b>13.456</b>
O	<b>TOTAL AVAILABILITY WITHIN DELHI ( M + N )</b>				644.847
P	<b>TOTAL CONSUMPTION (K + L + O)</b>				3109.101
Q	<b>LOAD SHEDDING</b>				5.078
R	<b>REQUIREMENT (P + Q )</b>				3097.643
S	<b>% DEPENDENCE ON GRID</b>				79.45
T	<b>AUXILIARY CONSUMPTION OF GENERATION STATIONS WITHIN DELHI</b>				16.536
U	<b>NET CONSUMPTION OF DTL ( P - T )</b>				3092.565

## 9.4 Power supply position during the month of July 2015

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	<b>SINGRAULI</b>	95.808	93.057	85.076	82.631
2	<b>RIHAND-I</b>	63.126	61.314	49.134	47.719
3	<b>RIHAND-II</b>	68.323	66.353	54.259	52.691
4	<b>RIHAND-III</b>	67.585	65.633	53.964	52.403
5	<b>UNCHAHAR-I</b>	16.998	16.510	10.660	10.353
6	<b>UNCHAHAR-II</b>	20.190	19.613	13.308	12.927
7	<b>UNCHAHAR-III</b>	20.549	19.959	14.350	13.937
8	<b>DADRI (TH)-I</b>	406.246	394.581	243.765	236.809
9	<b>DADRI(TH)-II</b>	543.315	527.717	417.970	405.961
10	<b>FARAKA</b>	13.435	13.049	10.104	9.814
11	<b>KHELGAON</b>	33.351	32.394	24.724	24.013
12	<b>KHELGAON-II</b>	109.964	106.808	83.729	81.323
13	<b>ANTA(GT)</b>	1.427	1.387	0.846	0.823
14	<b>ANTA(Liquid)</b>	28.927	28.095	0.000	0.000
15	<b>ANTA(RLNG)</b>	0.000	0.000	0.000	0.000
16	<b>AURIYA(GT)</b>	7.633	7.419	2.988	2.904
17	<b>AURIYA(Liquid)</b>	43.984	42.716	0.000	0.000
18	<b>AURIYA(RLNG)</b>	0.000	0.000	0.000	0.000
19	<b>DADRI(GT)</b>	22.554	21.912	15.327	14.889
20	<b>DADRI(Liquid)</b>	42.150	40.934	1.016	0.987
21	<b>DADRI (RLNG)</b>	0.000	0.000	0.000	0.000
22	<b>KOLDAM HEP</b>	18.921	18.381	18.921	18.381
23	<b>TALCHER</b>	0.000	0.000	0.000	0.000
24	<b>TALA</b>	22.769	22.116	22.769	22.116
A	<b>TOTAL NTPC STATIONS (TOTAL 1 - 24)</b>	<b>1647.256</b>	<b>1599.947</b>	<b>1122.912</b>	<b>1090.679</b>
	<b>NHPC STATIONS</b>				
25	<b>TANAKPUR</b>	8.016	7.785	5.980	5.808
26	<b>CHAMERA-I</b>	31.484	30.580	23.486	22.811
27	<b>CHAMERA-II</b>	27.549	26.758	20.551	19.960
28	<b>CHAMERA-III</b>	21.023	20.419	15.681	15.231
29	<b>BAIRA SUIL</b>	10.961	10.646	8.177	7.942
30	<b>SALAL</b>	51.546	50.066	38.455	37.350
31	<b>DAULI GANGA</b>	25.878	25.135	19.302	18.747
32	<b>DULASTI</b>	34.414	33.427	34.414	33.427
33	<b>URI</b>	38.615	37.507	28.807	27.980
34	<b>URIII</b>	15.430	14.986	15.430	14.986
35	<b>SEWA-II</b>	10.510	10.208	7.842	7.616
36	<b>PARBATI3</b>	17.696	17.189	17.696	17.189
B	<b>TOTAL NHPC STATIONS (TOTAL 25-36)</b>	<b>293.122</b>	<b>284.705</b>	<b>235.820</b>	<b>229.048</b>
37	<b>NAPP</b>	29.747	28.893	29.747	28.893
38	<b>RAPP 'B'</b>	0.000	0.000	0.000	0.000
39	<b>RAPP 'C'</b>	36.298	35.257	36.109	35.074
C	<b>TOTAL NPC (TOTAL 37 - 39)</b>	<b>66.045</b>	<b>64.150</b>	<b>65.856</b>	<b>63.966</b>
D	<b>NATHPA JHAKHRI(SJVNL)</b>	103.741	100.761	56.096	54.483
	<b>THDC</b>				
41	<b>TEHRI</b>	30.796	29.915	30.796	29.915
40	<b>KOTESHWAR</b>	12.621	12.260	12.621	12.260
E	<b>TOTAL THDC</b>	<b>43.416</b>	<b>42.175</b>	<b>43.416</b>	<b>42.175</b>
F	<b>JHAJJAR</b>	220.490	214.157	61.274	59.528
G	<b>SASAN</b>	292.807	284.395	288.058	279.782

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
H	<b>TOTAL CENTRAL SECTOR STATIONS (A+B+C+D+E+F+G)</b>	2666.877	2590.289	1873.432	1819.661
	<b>BILATERAL IMPORT</b>				
(I)	<b>ASSAM</b>	17.596	17.314	17.314	16.816
(ii)	<b>MEGHALAYA</b>	3.753	3.712	3.712	3.606
(iii)	<b>MADHYA PRADESH</b>	47.610	46.797	46.797	45.451
(iv)	<b>RASJASTHAN (SOLAR) BRPL</b>	3.235	3.183	3.183	3.092
(v)	<b>RASJASTHAN (SOLAR) BYPL</b>	3.235	3.183	3.183	3.092
(vi)	<b>RASJASTHAN (SOLAR) TPDDL</b>	3.235	3.183	3.183	3.092
(vii)	<b>CLP JHAJJAR (TPDDL)</b>	25.687	25.456	25.456	24.723
(viii)	<b>DVC</b>	225.854	223.639	223.639	217.202
(ix)	<b>DVC METHON (TPDDL)</b>	194.220	192.295	192.295	186.770
(x)	<b>DVC MEJIA -BYPL</b>	56.985	56.428	56.428	54.835
(xi)	<b>ORISSA</b>	52.178	51.505	51.505	50.025
(xii)	<b>HIMACHAL PRADESH</b>	74.365	73.400	73.400	71.293
(xiii)	<b>JAMMU &amp; KASHMIR</b>	103.148	101.909	101.909	98.984
(xiv)	<b>POWER EXCHANGE(IEX)</b>	49.390	47.983	49.390	47.983
(xv)	<b>POWER EXCHANGE (PX)</b>	0.000	0.000	0.000	0.000
I	<b>TOTAL BILATERAL IMPORT (TOTAL i- xv)</b>	860.491	849.987	851.394	826.962
	<b>BILATERAL EXPORT</b>				
(I)	<b>UTTAR PRADESH</b>	-0.433	-0.442	-0.442	-0.454
(ii)	<b>PUNJAB</b>	-13.734	-13.922	-13.922	-14.337
(iii)	<b>TO POWER EXCHANGE (IEX)</b>	-77.136	-79.416	-77.136	-79.416
(iv)	<b>TO POWER EXCHANGE (PX)</b>	-3.033	-3.123	-3.033	-3.123
(v)	<b>TO SHARE PROJECT (HARYANA)</b>	-11.176	-11.506	-11.176	-11.506
(vi)	<b>TO POWER EXCHANGE (PUNJAB)</b>	-11.476	-11.816	-11.476	-11.816
J	<b>TOTAL BILATERAL EXPORT (TOTAL i TO vi )</b>	-116.987	-120.224	-117.184	-120.652
K	<b>NET DRAWAL FROM THE GRID (H+I+J)</b>	3410.381	3320.052	2607.642	2525.972
L	<b>OVER DRAWL(+)/UNDER DRAWAL(-) FROM THE GRID</b>				-0.951
	<b>AVAILABILITY FROM OWN SOURCES</b>				
(I)	<b>RAJGHAT POWER HOUSE</b>				0.000
(ii)	<b>GAS TURBINE</b>				47.706
(iii)	<b>PRAGATI</b>				149.568
(iv)	<b>RITHALA</b>				0.000
(v)	<b>BAWANA CCGT</b>				123.762
(vi)	<b>BTPS</b>				272.086
M	<b>TOTAL GENERATION WITHIN DELHI (TOTAL i TO vi)</b>				593.122
	<b>RENEWABLE GENERATION</b>				
(I)	<b>TOWMCL</b>				13.305
(ii)	<b>RENEWABLE SOLAR (TPDDL)</b>				0.236752
(iii)	<b>RENEWABLE SOLAR (BRPL)</b>				0.028873
(iv)	<b>RENEWABLE SOLAR (BYPL)</b>				0.029462
(v)	<b>RENEWABLE SOLAR (NDMC)</b>				0.000
(vi)	<b>NON SOLAR (BYPL)</b>				0.000000
N	<b>TOTAL RENEWABLE GENERATION (TOTAL i - vi)</b>				<b>13.600</b>
O	<b>TOTAL AVAILABILITY WITHIN DELHI ( M + N )</b>				606.722
P	<b>TOTAL CONSUMPTION (K + L + O)</b>				3131.743
Q	<b>LOAD SHEDDING</b>				3.345
R	<b>REQUIREMENT (P + Q )</b>				3118.871
S	<b>% DEPENDENCE ON GRID</b>				80.66
T	<b>AUXILIARY CONSUMPTION OF GENERATION STATIONS WITHIN DELHI</b>				16.217
U	<b>NET CONSUMPTION OF DTL ( P - T )</b>				3115.526

## 9.5 Power supply position during the month of August 2015

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	98.491	96.141	90.222	88.052
2	RIHAND-I	62.066	60.600	50.805	49.596
3	RIHAND-II	65.909	64.301	50.728	49.475
4	RIHAND-III	49.552	48.361	41.619	40.611
5	UNCHAHAR-I	16.988	16.584	10.352	10.104
6	UNCHAHAR-II	33.155	32.366	22.219	21.689
7	UNCHAHAR-III	20.443	19.956	13.834	13.504
8	DADRI (TH)-I	356.820	348.430	183.203	178.906
9	DADRI(TH)-II	536.205	523.428	406.256	396.573
10	FARAKA	11.991	11.701	8.492	8.287
11	KHELGAON	33.051	32.266	22.016	21.489
12	KHELGAON-II	75.259	73.471	59.037	57.636
13	ANTA(GT)	4.353	4.242	3.786	3.689
14	ANTA(Liquid)	26.603	25.978	0.000	0.000
15	ANTA(RLNG)	0.000	0.000	0.000	0.000
16	AURIYA(GT)	20.185	19.703	13.409	13.090
17	AURIYA(Liquid)	31.218	30.476	0.000	0.000
18	AURIYA(RLNG)	0.099	0.096	0.035	0.034
19	DADRI(GT)	27.257	26.604	20.427	19.936
20	DADRI(Liquid)	30.486	29.778	0.078	0.076
21	DADRI (RLNG)	0.000	0.000	0.000	0.000
22	KOLDAM HEP	41.332	40.352	41.332	40.352
23	TALCHER	0.000	0.000	0.000	0.000
24	TALA	23.691	23.127	23.713	23.149
A	<b>TOTAL NTPC STATIONS (TOTAL 1 - 24)</b>	<b>1565.154</b>	<b>1527.961</b>	<b>1061.565</b>	<b>1036.249</b>
	<b>NHPC STATIONS</b>				
25	TANAKPUR	8.507	8.305	6.347	6.196
26	CHAMERA-I	31.167	30.424	23.249	22.695
27	CHAMERA-II	28.833	28.141	21.507	20.992
28	CHAMERA-III	17.078	16.654	12.478	12.166
29	BAIRA SUIL	10.322	10.084	7.669	7.492
30	SALAL	53.635	52.364	40.013	39.064
31	DAULI GANGA	25.113	24.522	18.731	18.291
32	DULASTI	34.874	34.046	34.874	34.046
33	URI	34.627	33.807	25.817	25.206
34	URIII	21.054	20.556	21.086	20.587
35	SEWA-II	8.052	7.866	6.081	5.941
36	PARBATI3	19.308	18.861	18.423	17.997
B	<b>TOTAL NHPC STATIONS (TOTAL 25-36)</b>	<b>292.571</b>	<b>285.631</b>	<b>236.275</b>	<b>230.673</b>
37	NAPP	29.752	29.044	29.743	29.035
38	RAPP 'B'	0.000	0.000	0.000	0.000
39	RAPP 'C'	34.650	33.828	34.650	33.828
C	<b>TOTAL NPC (TOTAL 37 - 39)</b>	<b>64.402</b>	<b>62.872</b>	<b>64.393</b>	<b>62.864</b>
D	<b>NATHPA JHAKHRI(SJVNL)</b>	<b>100.187</b>	<b>97.779</b>	<b>75.946</b>	<b>74.128</b>
	<b>THDC</b>				
41	TEHRI	56.118	54.793	56.633	55.298
40	KOTESHWAR	19.073	18.624	19.201	18.750
E	<b>TOTAL THDC</b>	<b>75.191</b>	<b>73.416</b>	<b>75.834</b>	<b>74.048</b>
F	JHAJJAR	216.303	211.154	47.000	45.885
G	SASAN	274.443	267.876	269.040	262.576
H	<b>TOTAL CENTRAL SECTOR STATIONS (A+B+C+D+E+F+G)</b>	<b>2588.252</b>	<b>2526.689</b>	<b>1830.054</b>	<b>1786.421</b>

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
<b>BILATERAL IMPORT</b>					
(I)	ASSAM	6.413	6.334	6.334	6.180
(ii)	MEGHALAYA	6.487	6.441	6.441	6.281
(iii)	MADHYA PRADESH	85.490	84.398	84.398	82.370
(iv)	RASJASTHAN (SOLAR) BRPL	3.231	3.168	3.168	3.092
(v)	RASJASTHAN (SOLAR) BYPL	3.231	3.168	3.168	3.092
(vi)	RASJASTHAN (SOLAR) TPDDL	3.231	3.168	3.168	3.092
(vii)	CLP JHAJJAR (TPDDL)	8.556	8.511	8.511	8.296
(viii)	DVC	229.616	227.798	227.798	222.363
(ix)	DVC METHON (TPDDL)	190.393	188.891	188.891	184.388
(x)	DVC MEJIA -BYPL	68.848	68.304	68.304	66.671
(xi)	ORISSA	36.792	36.410	36.410	35.529
(xii)	HIMACHAL PRADESH	86.834	85.774	85.774	83.731
(xiii)	JAMMU & KASHMIR	150.806	149.337	149.337	145.774
(xiv)	POWER EXCHANGE(IEX)	159.523	155.726	159.523	155.726
(xv)	POWER EXCHANGE (PX)	0.000	0.000	0.000	0.000
I	<b>TOTAL BILATERAL IMPORT (TOTAL i - xv )</b>	1039.451	1027.426	1031.223	1006.586
<b>BILATERAL EXPORT</b>					
(I)	UTTAR PRADESH	-2.328	-2.377	-2.377	-2.439
(ii)	PUNJAB	-11.698	-11.808	-11.808	-12.089
(iii)	KERALA	-1.157	-1.187	-1.187	-1.217
(iv)	HARYANA	-16.779	-17.007	-17.007	-17.383
(v)	TO POWER EXCHANGE (IEX)	-42.858	-43.913	-42.858	-43.913
(vi)	TO POWER EXCHANGE (PX)	-0.448	-0.458	-0.448	-0.458
(vii)	TO SHARE PROJECT (HARYANA)	0.000	0.000	0.000	0.000
(viii)	TO POWER EXCHANGE (PUNJAB)	0.000	0.000	0.000	0.000
J	<b>TOTAL BILATERAL EXPORT (TOTAL i TO viii )</b>	-75.268	-76.750	-75.684	-77.499
K	<b>NET DRAWAL FROM THE GRID (H+I+J)</b>	3552.434	3477.365	2785.593	2715.508
L	<b>OVER DRAWL(+)/UNDER DRAWAL(-) FROM THE GRID</b>				-35.028
<b>AVAILABILITY FROM OWN SOURCES</b>					
(I)	RAJGHAT POWER HOUSE				0.000
(ii)	GAS TURBINE				30.922
(iii)	PRAGATI				139.082
(iv)	RITHALA				0.000
(v)	BAWANA CCGT				0.000
(vi)	BTPS				228.110
M	<b>TOTAL GENERATION WITHIN DELHI (TOTAL i TO vi)</b>				398.114
<b>RENEWABLE GENERATION</b>					
(I)	TOWMCL				10.730
(ii)	RENEWABLE SOLAR (TPDDL)				0.137685
(iii)	RENEWABLE SOLAR (BRPL)				0.023203
(iv)	RENEWABLE SOLAR (BYPL)				0.023890
(v)	RENEWABLE SOLAR (NDMC)				0.000
(vi)	NON SOLAR (BYPL)				0.000000
N	<b>TOTAL RENEWABLE GENERATION (TOTAL i - vi)</b>				<b>10.915</b>
O	<b>TOTAL AVAILABILITY WITHIN DELHI ( M + N )</b>				409.029
P	<b>TOTAL CONSUMPTION (K + L + O)</b>				3089.509
Q	<b>LOAD SHEDDING</b>				3.514
R	<b>REQUIREMENT (P + Q)</b>				3081.524
S	<b>% DEPENDENCE ON GRID</b>				87.89
T	<b>AUXILIARY CONSUMPTION OF GENERATION STATIONS WITHIN DELHI</b>				11.499
U	<b>NET CONSUMPTION OF DTL ( P - T )</b>				3078.010

## 9.6 Power supply position during the month of September 2015

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	91.826	89.924	89.234	87.386
2	RIHAND-I	60.003	58.760	55.472	54.324
3	RIHAND-II	81.055	79.380	72.836	71.332
4	RIHAND-III	45.583	44.638	43.397	42.498
5	UNCHAHAR-I	12.186	11.937	9.426	9.232
6	UNCHAHAR-II	31.909	31.248	25.473	24.945
7	UNCHAHAR-III	19.886	19.474	15.985	15.653
8	DADRI (TH)-I	434.486	425.426	259.325	253.947
9	DADRI(TH)-II	523.800	512.940	434.048	425.025
10	FARAKA	9.994	9.788	9.040	8.855
11	KHELGAON	30.843	30.204	24.827	24.313
12	KHELGAON-II	81.412	79.723	71.687	70.200
13	ANTA(GT)	18.111	17.735	13.609	13.327
14	ANTA(Liquid)	8.997	8.813	0.073	0.072
15	ANTA(RLNG)	2.205	2.156	0.000	0.000
16	AURIYA(GT)	1.741	1.710	1.305	1.282
17	AURIYA(Liquid)	47.893	46.895	0.341	0.334
18	AURIYA(RLNG)	0.000	0.000	0.000	0.000
19	DADRI(GT)	28.188	27.603	22.621	22.153
20	DADRI(Liquid)	25.607	25.088	0.003	0.003
21	DADRI (RLNG)	9.381	9.175	0.000	0.000
22	KOLDAM HEP	21.779	21.334	21.779	21.334
23	TALCHER	0.000	0.000	0.000	0.000
24	TALA	22.638	22.168	22.638	22.168
A	TOTAL NTPC STATIONS (TOTAL 1 - 24)	<b>1609.523</b>	<b>1576.120</b>	<b>1193.119</b>	<b>1168.382</b>
	NHPC STATIONS				
25	TANAKPUR	7.473	7.319	5.574	5.459
26	CHAMERA-I	16.067	15.732	11.986	11.736
27	CHAMERA-II	20.109	19.695	15.001	14.692
28	CHAMERA-III	12.420	12.165	9.265	9.075
29	BAIRA SUIL	5.050	4.945	3.766	3.688
30	SALAL	42.769	41.892	31.905	31.251
31	DAULI GANGA	17.053	16.703	12.720	12.459
32	DULASTI	35.544	34.807	35.544	34.807
33	URI	21.213	20.768	15.825	15.493
34	URIII	15.020	14.706	15.020	14.706
35	SEWA-II	4.058	3.971	3.027	2.962
36	PARBATI3	7.110	6.964	6.798	6.659
B	TOTAL NHPC STATIONS (TOTAL 25-36)	<b>203.886</b>	<b>199.667</b>	<b>166.431</b>	<b>162.986</b>
37	NAPP	26.312	25.769	26.312	25.769
38	RAPP 'B'	0.000	0.000	0.000	0.000
39	RAPP 'C'	36.277	35.526	36.277	35.526
C	TOTAL NPC (TOTAL 37 - 39)	<b>62.590</b>	<b>61.295</b>	<b>62.590</b>	<b>61.295</b>
D	NATHPA JHAKHRI(SJVNL)	80.733	79.079	60.227	58.993
	THDC				
41	TEHRI	22.686	22.219	22.686	22.219
40	KOTESHWAR	7.245	7.096	7.245	7.096
E	TOTAL THDC	<b>29.931</b>	<b>29.314</b>	<b>29.931</b>	<b>29.314</b>
F	JHAJJAR	207.493	203.192	56.497	55.318
G	SASAN	267.507	261.922	267.007	261.433
H	TOTAL CENTRAL SECTOR STATIONS (A+B+C+D+E+F+G)	2461.662	2410.589	1835.802	1797.722

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
	<b>BILATERAL IMPORT</b>				
(I)	MEGHALAYA	21.974	21.813	21.813	21.361
(ii)	MADHYA PRADESH	114.565	113.113	113.113	110.744
(iii)	RASJASTHAN (SOLAR) BRPL	3.113	3.051	3.051	2.988
(iv)	RASJASTHAN (SOLAR) BYPL	3.113	3.051	3.051	2.988
(v)	RASJASTHAN (SOLAR) TPDDL	3.113	3.051	3.051	2.988
(vi)	CLP JHAJJAR (TPDDL)	15.089	15.052	15.052	14.741
(vii)	DVC	208.442	206.696	206.696	202.421
(viii)	DVC METHON (TPDDL)	116.288	115.302	115.302	112.952
(ix)	DVC MEJIA - BYPL	58.621	58.127	58.127	56.934
(x)	ORISSA	26.286	26.003	26.003	25.472
(xi)	HIMACHAL PRADESH	30.334	30.039	30.039	29.432
(xii)	JAMMU & KASHMIR	103.366	102.597	102.597	100.480
(xiii)	POWER EXCHANGE(IEX)	159.593	156.338	159.593	156.338
(xiv)	POWER EXCHANGE (PX)				
I	TOTAL BILATERAL IMPORT (TOTAL i TO xiv )	863.896	854.234	857.490	839.839
	<b>BILATERAL EXPORT</b>				
(I)	UTTAR PRADESH	-1.618	-1.648	-1.648	-1.685
(ii)	BIHAR	-1.155	-1.167	-1.167	-1.189
(iii)	KARNATAKA	-0.239	-0.246	-0.246	-0.251
(iv)	PUNJAB	-36.830	-37.108	-37.108	-37.893
(v)	KERALA	-1.723	-1.766	-1.766	-1.804
(vi)	TRIPURA	-0.545	-0.549	-0.549	-0.562
(vii)	WEST BENGAL	-4.124	-4.170	-4.170	-4.261
(viii)	TO POWER EXCHANGE (IEX)	-43.804	-44.746	-43.804	-44.746
(ix)	TO POWER EXCHANGE (PX)	-1.797	-1.837	-1.797	-1.837
(x)	TO SHARE PROJECT (HARYANA)	-14.462	-14.774	-14.462	-14.774
(xi)	TO POWER EXCHANGE (PUNJAB)	-13.959	-14.259	-13.959	-14.259
J	TOTAL BILATERAL EXPORT (TOTAL i TO xi )	-120.257	-122.269	-120.675	-123.259
K	NET DRAWAL FROM THE GRID (H+I+J)	3205.302	3142.555	2572.617	2514.302
L	OVER DRAWL(+)/UNDER DRAWAL(-) FROM THE GRID				-26.658
	<b>AVAILABILITY FROM OWN SOURCES</b>				
(I)	RAJGHAT POWER HOUSE				0.000
(ii)	GAS TURBINE				26.677
(iii)	PRAGATI				171.228
(iv)	RITHALA				0.000
(v)	BAWANA CCGT				166.146
(vi)	BTPS				193.400
M	TOTAL GENERATION WITHIN DELHI (TOTAL i TO vi)				557.451
	<b>RENEWABLE GENERATION</b>				
(I)	TOWMCL				12.475
(ii)	RENEWABLE SOLAR (TPDDL)				0.236752
(iii)	RENEWABLE SOLAR (BRPL)				0.028873
(iv)	RENEWABLE SOLAR (BYPL)				0.029462
(v)	RENEWABLE SOLAR (NDMC)				0.000
(vi)	NON SOLAR (BYPL)				0.000000
N	TOTAL RENEWABLE GENERATION (TOTAL i - vi)				<b>12.770</b>
O	TOTAL AVAILABILITY WITHIN DELHI ( M + N )				570.221
P	TOTAL CONSUMPTION (K + L + O)				3057.865
Q	LOAD SHEDDING				4.742
R	REQUIREMENT (P + Q )				3046.936
S	% DEPENDENCE ON GRID				82.22
T	AUXILIARY CONSUMPTION OF GENERATION STATIONS WITHIN DELHI				15.671
U	NET CONSUMPTION OF DTL ( P - T )				3042.194

## 9.7 Power supply position during the month of October 2015

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	100.823	98.639	94.830	92.793
2	RIHAND-I	61.803	60.454	55.133	53.938
3	RIHAND-II	85.639	83.788	73.263	71.701
4	RIHAND-III	47.255	46.232	42.646	41.733
5	UNCHAHAR-I	9.390	9.181	6.697	6.551
6	UNCHAHAR-II	32.002	31.311	24.900	24.371
7	UNCHAHAR-III	20.549	20.105	15.753	15.419
8	DADRI (TH)-I	536.558	524.956	203.374	199.223
9	DADRI(TH)-II	542.033	530.313	425.991	416.920
10	FARAKA	10.248	10.027	9.392	9.190
11	KHELGAON	34.024	33.286	24.672	24.146
12	KHELGAON-II	98.234	96.089	83.559	81.756
13	ANTA(GT)	0.957	0.930	0.697	0.678
14	ANTA(Liquid)	27.976	27.370	0.003	0.003
15	ANTA(RLNG)	2.729	2.675	0.000	0.000
16	AURIYA(GT)	15.872	15.514	8.282	8.095
17	AURIYA(Liquid)	31.126	30.459	0.000	0.000
18	AURIYA(RLNG)	0.000	0.000	0.000	0.000
19	DADRI(GT)	25.568	25.008	15.123	14.799
20	DADRI(Liquid)	23.425	22.915	0.431	0.422
21	DADRI (RLNG)	6.287	6.164	0.000	0.000
22	KOLDAM HEP	10.811	10.581	10.811	10.581
23	TALCHER	0.000	0.000	0.000	0.000
24	TALA	13.240	12.964	13.240	12.964
A	<b>TOTAL NTPC STATIONS (TOTAL 1 - 24)</b>	<b>1736.546</b>	<b>1698.962</b>	<b>1108.797</b>	<b>1085.283</b>
	<b>NHPC STATIONS</b>				
25	TANAKPUR	4.711	4.611	3.514	3.440
26	CHAMERA-I	8.729	8.546	6.512	6.376
27	CHAMERA-II	10.860	10.629	8.101	7.929
28	CHAMERA-III	6.450	6.313	4.811	4.710
29	BAIRA SUIL	3.156	3.088	2.354	2.303
30	SALAL	23.064	22.562	17.207	16.832
31	DAULI GANGA	8.044	7.875	6.000	5.874
32	DULASTI	25.153	24.618	25.153	24.618
33	URI	26.954	26.368	20.108	19.671
34	URIII	19.200	18.782	19.200	18.782
35	SEWA-II	3.622	3.542	2.702	2.643
36	PARBATI3	3.093	3.028	2.956	2.893
B	<b>TOTAL NHPC STATIONS (TOTAL 25-36)</b>	<b>143.035</b>	<b>139.963</b>	<b>118.618</b>	<b>116.070</b>
37	NAPP	22.816	22.300	22.816	22.300
38	RAPP 'B'	0.000	0.000	0.000	0.000
39	RAPP 'C'	24.770	24.214	24.523	23.972
C	<b>TOTAL NPC (TOTAL 37 - 39)</b>	<b>47.586</b>	<b>46.514</b>	<b>47.339</b>	<b>46.272</b>
D	<b>NATHPA JHAKHRI(SJVNL)</b>	<b>41.466</b>	<b>40.581</b>	<b>30.934</b>	<b>30.274</b>
	<b>THDC</b>				
41	TEHRI	20.889	20.462	20.889	20.462
40	KOTESHWAR	8.184	8.011	8.184	8.011
E	<b>TOTAL THDC</b>	<b>29.073</b>	<b>28.473</b>	<b>29.073</b>	<b>28.473</b>
F	JHAJJAR	0.000	0.000	0.000	0.000
G	SASAN	274.891	268.975	274.161	268.264
H	<b>TOTAL CENTRAL SECTOR STATIONS (A+B+C+D+E+F+G)</b>	<b>2272.596</b>	<b>2223.468</b>	<b>1608.921</b>	<b>1574.636</b>

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
	<b>BILATERAL IMPORT</b>				
(I)	ASSAM	2.569	2.544	2.544	2.491
(ii)	MEGHALAYA	2.188	2.184	2.184	2.145
(iii)	MADHYA PRADESH	24.814	24.512	24.512	23.971
(iv)	RASJASTHAN (SOLAR) BRPL	3.243	3.162	3.162	3.094
(v)	RASJASTHAN (SOLAR) BYPL	3.243	3.162	3.162	3.094
(vi)	RASJASTHAN (SOLAR) TPDDL	3.243	3.162	3.162	3.094
(vii)	CLP JHAJJAR (TPDDL)	38.912	38.678	38.678	37.840
(viii)	UN-REQUISITIONED SURPLUS	0.769	0.753	0.769	0.753
(ix)	DVC	153.163	151.534	151.534	148.186
(x)	DVC METHON (TPDDL)	168.883	167.076	167.076	165.288
(xi)	DVC MEJIA -BYPL	50.248	49.705	49.705	48.689
(xii)	CHATTISHGARH	0.016	0.015	0.015	0.015
(xiii)	HIMACHAL PRADESH	0.638	0.632	0.632	0.620
(xiv)	JAMMU & KASHMIR	4.477	4.448	4.448	4.352
(xv)	POWER EXCHANGE(IEX)	247.842	242.789	247.842	242.789
(xvi)	POWER EXCHANGE (PX)	0.000	0.000	0.000	0.000
I	<b>TOTAL BILATERAL IMPORT (TOTAL i TO xvi )</b>	704.248	694.358	699.427	686.419
	<b>BILATERAL EXPORT</b>				
(I)	ORISSA	-31.469	-31.889	-31.889	-32.573
(ii)	CHHATTISGARH	-35.982	-36.605	-36.605	-37.414
(iii)	JAMMU & KASHMIR	-29.294	-29.558	-29.558	-30.295
(iv)	KERALA	-1.415	-1.449	-1.449	-1.488
(v)	TRIPURA	-1.370	-1.376	-1.376	-1.404
(vi)	TO POWER EXCHANGE (IEX)	-21.541	-22.072	-21.541	-22.072
(vii)	TO POWER EXCHANGE (PX)	-0.332	-0.339	-0.332	-0.339
(viii)	TO SHARE PROJECT (HARYANA)	-14.041	-14.351	-14.041	-14.351
(ix)	TO POWER EXCHANGE (PUNJAB)	-12.358	-12.630	-12.358	-12.630
J	<b>TOTAL BILATERAL EXPORT (TOTAL i TO ix )</b>	-147.802	-150.271	-149.150	-152.565
K	<b>NET DRAWAL FROM THE GRID (H+I+J)</b>	2829.043	2767.556	2159.197	2108.491
L	<b>OVER DRAWL(+)/UNDER DRAWAL(-) FROM THE GRID</b>				-2.771
	<b>AVAILABILITY FROM OWN SOURCES</b>				
(I)	RAJGHAT POWER HOUSE				0.000
(ii)	GAS TURBINE				31.808
(iii)	PRAGATI				108.756
(iv)	RITHALA				0.000
(v)	BAWANA CCGT				156.319
(vi)	BTPS				131.925
M	<b>TOTAL GENERATION WITHIN DELHI (TOTAL i TO vi)</b>				428.808
	<b>RENEWABLE GENERATION</b>				
(I)	TOWMCL				10.937
(ii)	RENEWABLE SOLAR (TPDDL)				0.188821
(iii)	RENEWABLE SOLAR (BRPL)				0.028564
(iv)	RENEWABLE SOLAR (BYPL)				0.023492
(v)	RENEWABLE SOLAR (NDMC)				0.000
(vi)	NON SOLAR (BYPL)				-0.325
N	<b>TOTAL RENEWABLE GENERATION (TOTAL i - vi)</b>				10.852
O	<b>TOTAL AVAILABILITY WITHIN DELHI ( M + N )</b>				439.660
P	<b>TOTAL CONSUMPTION (K + L + O)</b>				2545.380
Q	<b>LOAD SHEDDING</b>				2.839
R	<b>REQUIREMENT (P + Q )</b>				2534.066
S	<b>% DEPENDENCE ON GRID</b>				82.84
T	<b>AUXILIARY CONSUMPTION OF GENERATION STATIONS WITHIN DELHI</b>				14.153
U	<b>NET CONSUMPTION OF DTL ( P - T )</b>				2531.227

## 9.8 Power supply position during the month of November 2015

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	100.505	97.890	98.704	96.134
2	RIHAND-I	61.601	59.998	60.085	58.520
3	RIHAND-II	86.574	84.319	72.647	70.753
4	RIHAND-III	87.099	84.835	79.293	77.229
5	UNCHAHAR-I	16.244	15.821	9.585	9.337
6	UNCHAHAR-II	32.486	31.641	22.342	21.760
7	UNCHAHAR-III	20.042	19.520	13.564	13.211
8	DADRI (TH)-I	477.360	464.983	85.805	83.571
9	DADRI(TH)-II	515.567	502.162	191.172	186.199
10	FARAKA	13.852	13.492	6.020	5.863
11	KHELGAON	33.518	32.645	17.082	16.638
12	KHELGAON-II	106.798	104.017	72.433	70.545
13	ANTA(GT)	25.132	24.479	11.956	11.647
14	ANTA(Liquid)	4.780	4.653	0.016	0.015
15	ANTA(RLNG)	0.000	0.000	0.000	0.000
16	AURIYA(GT)	30.774	29.971	12.936	12.600
17	AURIYA(Liquid)	20.294	19.768	0.000	0.000
18	AURIYA(RLNG)	0.000	0.000	0.000	0.000
19	DADRI(GT)	37.315	36.338	15.966	15.551
20	DADRI(Liquid)	14.172	13.809	0.000	0.000
21	DADRI (RLNG)	0.000	0.000	0.000	0.000
22	KOLDAM HEP	7.227	7.039	7.227	7.039
23	TALCHER	0.000	0.000	0.000	0.000
24	TALA	5.758	5.609	5.758	5.609
A	<b>TOTAL NTPC STATIONS (TOTAL 1 - 24)</b>	<b>1697.097</b>	<b>1652.990</b>	<b>782.590</b>	<b>762.222</b>
	<b>NHPC STATIONS</b>				
25	TANAKPUR	2.363	2.302	1.762	1.717
26	CHAMERA-I	5.047	4.916	3.765	3.667
27	CHAMERA-II	6.776	6.600	5.055	4.924
28	CHAMERA-III	3.687	3.591	2.750	2.679
29	BAIRA SUIL	2.264	2.206	1.689	1.645
30	SALAL	16.237	15.817	12.113	11.800
31	DAULI GANGA	4.600	4.481	3.431	3.342
32	DULASTI	16.228	15.807	16.228	15.807
33	URI	31.098	30.293	23.199	22.598
34	URIII	20.839	20.298	20.839	20.298
35	SEWA-II	2.643	2.575	1.971	1.921
36	PARBATI3	1.855	1.806	1.765	1.719
B	<b>TOTAL NHPC STATIONS (TOTAL 25-36)</b>	<b>113.637</b>	<b>110.690</b>	<b>94.568</b>	<b>92.116</b>
37	NAPP	22.478	21.902	22.478	21.902
38	RAPP 'B'	0.000	0.000	0.000	0.000
39	RAPP 'C'	37.523	36.546	37.523	36.546
C	<b>TOTAL NPC (TOTAL 37 - 39)</b>	<b>60.001</b>	<b>58.448</b>	<b>60.001</b>	<b>58.448</b>
D	NATHPA JHAKHRI(SJVNL)	28.955	28.203	21.601	21.040
	<b>THDC</b>				
41	TEHRI	11.719	11.414	11.719	11.414
40	KOTESHWAR	6.493	6.324	6.493	6.324
E	<b>TOTAL THDC</b>	<b>18.213</b>	<b>17.738</b>	<b>18.213</b>	<b>17.738</b>
F	JHAJJAR	0.000	0.000	0.000	0.000
G	SASAN	284.883	277.478	285.682	278.255
H	<b>TOTAL CENTRAL SECTOR STATIONS (A+B+C+D+E+F+G)</b>	<b>2202.785</b>	<b>2145.548</b>	<b>1262.654</b>	<b>1229.820</b>

S. no.	SOURCE	Availability at Power Plant bus	Availability at Delhi periphery	Allocation made by NRELDC at Power Plant	Allocation Made by NRELDC at Delhi periphery
<b>BILATERAL IMPORT</b>					
(I)	MEGHALAYA	0.092	0.092	0.092	0.089
(ii)	RASJASTHAN (SOLAR) BRPL	2.819	2.740	2.740	2.669
(iii)	RASJASTHAN (SOLAR) BYPL	2.973	2.890	2.890	2.814
(iv)	RASJASTHAN (SOLAR) TPDDL	2.832	2.753	2.753	2.681
(v)	CLP JHAJJAR (TPDDL)	27.598	27.391	27.391	26.680
(vi)	MAHARASHTRA	0.135	0.132	0.132	0.129
(vii)	DVC	144.470	142.897	142.897	139.179
(viii)	DVC METHON (TPDDL)	202.448	200.237	200.237	195.020
(ix)	HIMACHAL PRADESH	0.516	0.509	0.509	0.495
(x)	JAMMU & KASHMIR	1.834	1.820	1.820	1.772
(xi)	POWER EXCHANGE(IEX)	214.772	209.153	214.772	209.153
(xii)	POWER EXCHANGE (PX)	0.000	0.000	0.000	0.000
I	<b>TOTAL BILATERAL IMPORT (TOTAL i TO xii )</b>	600.490	590.613	596.233	580.682
<b>BILATERAL EXPORT</b>					
(I)	ORISSA	-61.724	-62.435	-62.435	-64.108
(ii)	KARNATAKA	-0.644	-0.663	-0.663	-0.681
(iii)	CHHATTISGARH	-34.627	-35.336	-35.336	-36.281
(iv)	JAMMU & KASHMIR	-263.884	-266.478	-266.478	-273.625
(v)	KERALA	-5.140	-5.264	-5.264	-5.409
(vi)	HIMACHAL PRADESH	-43.944	-44.760	-44.760	-45.966
(vii)	TO POWER EXCHANGE (IEX)	-15.020	-15.426	-15.020	-15.426
(viii)	TO POWER EXCHANGE (PX)	-0.078	-0.080	-0.078	-0.080
(ix)	TO SHARE PROJECT (HARYANA)	-14.359	-14.744	-14.359	-14.744
(x)	TO POWER EXCHANGE (PUNJAB)	-12.086	-12.410	-12.086	-12.410
J	<b>TOTAL BILATERAL EXPORT (TOTAL i TO x )</b>	-451.507	-457.597	-456.479	-468.732
K	<b>NET DRAWAL FROM THE GRID (H+I+J)</b>	2351.768	2278.564	1402.408	1341.770
L	<b>OVER DRAWAL(+) /UNDER DRAWAL(-) FROM THE GRID</b>				28.066
<b>AVAILABILITY FROM OWN SOURCES</b>					
(I)	RAJGHAT POWER HOUSE				0.000
(ii)	GAS TURBINE				30.452
(iii)	PRAGATI				113.531
(iv)	RITHALA				0.000
(v)	BAWANA CCGT				172.851
(vi)	BTPS				113.497
M	<b>TOTAL GENERATION WITHIN DELHI (TOTAL i TO vi)</b>				430.331
<b>RENEWABLE GENERATION</b>					
(I)	TOWMCL				12.886
(ii)	RENEWABLE SOLAR (TPDDL)				0.133601
(iii)	RENEWABLE SOLAR (BRPL)				0.032096
(iv)	RENEWABLE SOLAR (BYPL)				0.014060
(v)	RENEWABLE SOLAR (NDMC)				0.000
(vi)	NON SOLAR (BYPL)				0.295
N	<b>TOTAL RENEWABLE GENERATION (TOTAL i - vi)</b>				13.360
O	<b>TOTAL AVAILABILITY WITHIN DELHI ( M + N )</b>				443.691
P	<b>TOTAL CONSUMPTION (K + L + O)</b>				1813.527
Q	<b>LOAD SHEDDING</b>				3.708
R	<b>REQUIREMENT (P + Q )</b>				1803.850
S	<b>% DEPENDENCE ON GRID</b>				73.99
T	<b>AUXILIARY CONSUMPTION OF GENERATION STATIONS WITHIN DELHI</b>				13.385
U	<b>NET CONSUMPTION OF DTL ( P - T )</b>				1800.142

## 9.9 Power supply position during the month of December 2015

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	<b>SINGRAULI</b>	96.588	93.474	91.051	88.117
2	<b>RIHAND-I</b>	64.115	62.034	55.606	53.819
3	<b>RIHAND-II</b>	90.237	87.308	80.092	77.489
4	<b>RIHAND-III</b>	92.783	89.776	83.357	80.658
5	<b>UNCHAHAR-I</b>	17.253	16.693	12.124	11.724
6	<b>UNCHAHAR-II</b>	33.614	32.523	25.301	24.469
7	<b>UNCHAHAR-III</b>	20.750	20.077	15.782	15.264
8	<b>DADRI (TH)-I</b>	482.004	466.076	190.963	184.646
9	<b>DADRI(TH)-II</b>	546.840	529.094	219.650	212.469
10	<b>FARAKA</b>	13.983	13.534	7.493	7.251
11	<b>KHELGAON</b>	33.791	32.698	19.585	18.940
12	<b>KHELGAON-II</b>	107.929	104.433	80.552	77.935
13	<b>ANTA(GT)</b>	24.407	23.628	11.779	11.412
14	<b>ANTA(Liquid)</b>	8.027	7.751	0.048	0.046
15	<b>ANTA(RLNG)</b>	0.000	0.000	0.000	0.000
16	<b>AURIYA(GT)</b>	32.358	31.324	14.676	14.202
17	<b>AURIYA(Liquid)</b>	20.812	20.120	0.238	0.230
18	<b>AURIYA(RLNG)</b>	0.000	0.000	0.000	0.000
19	<b>DADRI(GT)</b>	43.501	42.097	20.303	19.648
20	<b>DADRI(Liquid)</b>	8.347	8.042	0.000	0.000
21	<b>DADRI (RLNG)</b>	0.000	0.000	0.000	0.000
22	<b>KOLDAM HEP</b>	5.953	5.761	5.932	5.741
23	<b>TALCHER</b>	0.000	0.000	0.000	0.000
24	<b>TALA</b>	3.147	3.048	3.142	3.043
A	<b>TOTAL NTPC STATIONS (TOTAL 1 - 24)</b>	<b>1746.440</b>	<b>1689.493</b>	<b>937.673</b>	<b>907.103</b>
	<b>NHPC STATIONS</b>				
25	<b>TANAKPUR</b>	1.551	1.501	1.156	1.119
26	<b>CHAMERA-I</b>	4.979	4.818	3.714	3.594
27	<b>CHAMERA-II</b>	5.334	5.161	3.959	3.831
28	<b>CHAMERA-III</b>	2.884	2.791	2.147	2.078
29	<b>BAIRA SUIL</b>	1.757	1.700	1.299	1.257
30	<b>SALAL</b>	11.539	11.167	8.627	8.349
31	<b>DAULI GANGA</b>	3.436	3.324	2.563	2.479
32	<b>DULASTI</b>	13.151	12.726	13.163	12.738
33	<b>URI</b>	18.556	17.956	13.848	13.400
34	<b>URIII</b>	13.804	13.358	13.801	13.355
35	<b>SEWA-II</b>	1.507	1.458	1.125	1.088
36	<b>PARBATI3</b>	0.845	0.822	0.845	0.822
B	<b>TOTAL NHPC STATIONS (TOTAL 25-36)</b>	<b>79.342</b>	<b>76.782</b>	<b>66.247</b>	<b>64.110</b>
37	<b>NAPP</b>	18.787	18.169	18.790	18.171
38	<b>RAPP 'B'</b>	0.000	0.000	0.000	0.000
39	<b>RAPP 'C'</b>	39.622	38.335	39.622	38.335
C	<b>TOTAL NPC (TOTAL 37 - 39)</b>	<b>58.409</b>	<b>56.503</b>	<b>58.412</b>	<b>56.506</b>
D	<b>NATHPA JHAKHRI(SJVNL)</b>	22.801	22.071	16.985	16.441
	<b>THDC</b>				
41	<b>TEHRI</b>	13.719	13.267	13.719	13.267
40	<b>KOTESHWAR</b>	8.003	7.739	8.003	7.739
E	<b>TOTAL THDC</b>	<b>21.722</b>	<b>21.006</b>	<b>21.722</b>	<b>21.006</b>
F	<b>JHAJJAR</b>	0.000	0.000	0.000	0.000
G	<b>SASAN</b>	283.317	274.082	290.061	280.585
H	<b>TOTAL CENTRAL SECTOR STATIONS (A+B+C+D+E+F+G)</b>	<b>2212.031</b>	<b>2139.937</b>	<b>1391.100</b>	<b>1345.752</b>

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
<b>BILATERAL IMPORT</b>					
(I)	TRIPURA	2.135	2.104	2.104	2.026
(ii)	RASJASTHAN (SOLAR) BRPL	3.047	2.947	2.947	2.850
(iii)	RASJASTHAN (SOLAR) BYPL	3.253	3.146	3.146	3.043
(iv)	RASJASTHAN (SOLAR) TPDDL	3.129	3.026	3.026	2.927
(v)	CLP JHAJJAR (TPDDL)	34.117	33.700	33.700	32.628
(vi)	UTTAR PRADESH	4.681	4.563	4.563	4.397
(vii)	DVC	154.119	152.069	152.069	147.143
(viii)	DVC METHON (TPDDL)	202.596	199.888	199.888	193.346
(ix)	DVC MEJIA -BYPL	49.727	49.046	49.046	47.361
(x)	ORISSA	0.300	0.296	0.296	0.286
(xi)	PUNJAB	9.091	8.953	8.953	8.627
(xii)	JAMMU & KASHMIR	0.103	0.102	0.102	0.099
(xiii)	POWER EXCHANGE(IEX)	241.579	233.707	241.579	233.707
(xiv)	POWER EXCHANGE (PX)	0.000	0.000	0.000	0.000
I	<b>TOTAL BILATERAL IMPORT (TOTAL i TO xiv )</b>	707.875	693.547	701.419	678.440
<b>BILATERAL EXPORT</b>					
(I)	ORISSA	-71.935	-72.905	-72.905	-75.352
(ii)	KARNATAKA	-0.868	-0.892	-0.892	-0.929
(iii)	CHHATTISGARH	-35.748	-36.454	-36.454	-37.678
(iv)	JAMMU & KASHMIR	-280.112	-284.414	-284.414	-293.967
(v)	KERALA	-37.200	-38.109	-38.109	-39.389
(vi)	HIMACHAL PRADESH	-76.804	-78.785	-78.785	-81.433
(vii)	TO POWER EXCHANGE (IEX)	-19.131	-19.789	-19.131	-19.789
(viii)	TO POWER EXCHANGE (PX)	0.000	0.000	0.000	0.000
(ix)	TO SHARE PROJECT (HARYANA)	-17.310	-17.891	-17.310	-17.891
(x)	TO POWER EXCHANGE (PUNJAB)	-16.871	-17.441	-16.871	-17.441
J	<b>TOTAL BILATERAL EXPORT (TOTAL i TO x )</b>	-555.979	-566.679	-564.870	-583.868
K	<b>NET DRAWAL FROM THE GRID (H+I+J)</b>	2363.927	2266.805	1527.649	1440.324
L	<b>OVER DRAWL(+)/UNDER DRAWL(-) FROM THE GRID</b>				18.584
<b>AVAILABILITY FROM OWN SOURCES</b>					
(I)	RAJGHAT POWER HOUSE				0.000
(ii)	GAS TURBINE				26.989
(iii)	PRAGATI				109.922
(iv)	RITHALA				0.000
(v)	BAWANA CCGT				189.098
(vi)	BTPS				117.518
M	<b>TOTAL GENERATION WITHIN DELHI (TOTAL i TO vi)</b>				443.527
<b>RENEWABLE GENERATION</b>					
(I)	TOWMCL				11.107
(ii)	RENEWABLE SOLAR (TPDDL)				0.055955
(iii)	RENEWABLE SOLAR (BRPL)				0.024685
(iv)	RENEWABLE SOLAR (BYPL)				0.008798
(v)	RENEWABLE SOLAR (NDMC)				0.000
(vi)	NON SOLAR (BYPL)				-0.154
N	<b>TOTAL RENEWABLE GENERATION (TOTAL i - vi)</b>				<b>11.043</b>
O	<b>TOTAL AVAILABILITY WITHIN DELHI ( M + N )</b>				454.570
P	<b>TOTAL CONSUMPTION (K + L + O)</b>				1913.478
Q	<b>LOAD SHEDDING</b>				2.789
R	<b>REQUIREMENT (P + Q )</b>				1904.266
S	<b>% DEPENDENCE ON GRID</b>				75.27
T	<b>AUXILIARY CONSUMPTION OF GENERATION STATIONS WITHIN DELHI</b>				12.001
U	<b>NET CONSUMPTION OF DTL ( P - T )</b>				1901.477

## 9.10 Power supply position during the month of January 2016

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	<b>SINGRAULI</b>	101.647	97.550	97.362	93.437
2	<b>RIHAND-I</b>	62.539	60.024	49.146	47.168
3	<b>RIHAND-II</b>	90.100	86.460	76.204	73.121
4	<b>RIHAND-III</b>	92.202	88.475	82.740	79.391
5	<b>UNCHAHAR-I</b>	17.253	16.556	11.559	11.087
6	<b>UNCHAHAR-II</b>	33.531	32.176	24.499	23.506
7	<b>UNCHAHAR-III</b>	20.748	19.909	15.296	14.675
8	<b>DADRI (TH)-I</b>	545.724	523.666	354.995	340.384
9	<b>DADRI(TH)-II</b>	545.882	523.813	345.208	330.816
10	<b>FARAKA</b>	13.857	13.296	8.229	7.893
11	<b>KHELGAON</b>	30.960	29.725	17.273	16.579
12	<b>KHELGAON-II</b>	108.656	104.269	81.210	77.917
13	<b>ANTA(GT)</b>	0.000	0.000	0.000	0.000
14	<b>ANTA(Liquid)</b>	28.518	27.342	4.333	4.156
15	<b>ANTA(RLNG)</b>	3.832	3.701	0.000	0.000
16	<b>AURIYA(GT)</b>	10.149	9.732	4.075	3.907
17	<b>AURIYA(Liquid)</b>	40.105	38.487	4.047	3.881
18	<b>AURIYA(RLNG)</b>	0.000	0.000	0.000	0.000
19	<b>DADRI(GT)</b>	32.133	30.828	15.045	14.436
20	<b>DADRI(Liquid)</b>	29.935	28.705	0.807	0.774
21	<b>DADRI (RLNG)</b>	4.329	4.181	0.000	0.000
22	<b>KOLDAM HEP</b>	5.170	4.964	5.170	4.964
23	<b>TALCHER</b>	0.000	0.000	0.000	0.000
24	<b>TALA</b>	1.264	1.214	1.264	1.214
A	<b>TOTAL NTPC STATIONS (TOTAL 1 - 24)</b>	<b>1818.536</b>	<b>1745.073</b>	<b>1198.461</b>	<b>1149.306</b>
	<b>NHPC STATIONS</b>				
25	<b>TANAKPUR</b>	1.096	1.052	0.817	0.784
26	<b>CHAMERA-I</b>	3.761	3.610	2.806	2.693
27	<b>CHAMERA-II</b>	4.202	4.033	3.134	3.009
28	<b>CHAMERA-III</b>	2.190	2.103	1.634	1.569
29	<b>BAIRA SUIL</b>	1.537	1.476	1.147	1.101
30	<b>SALAL</b>	9.628	9.240	7.181	6.892
31	<b>DAULI GANGA</b>	2.999	2.879	2.237	2.147
32	<b>DULASTI</b>	10.931	10.492	10.931	10.492
33	<b>URI</b>	15.899	15.262	11.861	11.385
34	<b>URIII</b>	11.938	11.459	11.938	11.459
35	<b>SEWA-II</b>	1.431	1.373	1.067	1.025
36	<b>PARBATI3</b>	0.000	0.000	0.000	0.000
B	<b>TOTAL NHPC STATIONS (TOTAL 25-36)</b>	<b>65.612</b>	<b>62.980</b>	<b>54.753</b>	<b>52.556</b>
37	<b>NAPP</b>	32.603	31.284	32.603	31.284
38	<b>RAPP 'B'</b>	0.000	0.000	0.000	0.000
39	<b>RAPP 'C'</b>	39.503	37.905	39.503	37.905
C	<b>TOTAL NPC (TOTAL 37 - 39)</b>	<b>72.106</b>	<b>69.189</b>	<b>72.106</b>	<b>69.189</b>
D	<b>NATHPA JHAKHRI(SJVNL)</b>	19.212	18.440	14.332	13.757
	<b>THDC</b>				
41	<b>TEHRI</b>	15.855	15.216	15.855	15.216
40	<b>KOTESHWAR</b>	9.547	9.161	9.547	9.161
E	<b>TOTAL THDC</b>	<b>25.402</b>	<b>24.377</b>	<b>25.402</b>	<b>24.377</b>
F	<b>JHAJJAR</b>	0.000	0.000	0.000	0.000
G	<b>SASAN</b>	285.517	273.946	285.409	273.843
H	<b>TOTAL CENTRAL SECTOR STATIONS (A+B+C+D+E+F+G)</b>	2286.384	2194.006	1650.462	1583.029

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
<b>BILATERAL IMPORT</b>					
(I)	<b>RAJASTHAN</b>	0.200	0.192	0.192	0.184
(ii)	<b>RASJASTHAN (SOLAR) BRPL</b>	3.472	3.340	3.340	3.203
(iii)	<b>RASJASTHAN (SOLAR) BYPL</b>	3.507	3.374	3.374	3.236
(iv)	<b>RASJASTHAN (SOLAR) TPDDL</b>	3.461	3.330	3.330	3.194
(v)	<b>CLP JHAJJAR (TPDDL)</b>	24.540	24.104	24.104	23.126
(vi)	<b>UTTAR PRADESH</b>	6.880	6.690	6.690	6.419
(vii)	<b>DVC</b>	156.046	153.637	153.637	147.414
(viii)	<b>DVC METHON (TPDDL)</b>	178.320	175.545	175.545	168.386
(ix)	<b>DVC MEJIA -BYPL</b>	72.413	71.297	71.297	68.417
(x)	<b>PUNJAB</b>	17.666	17.354	17.354	16.653
(xi)	<b>JAMMU &amp; KASHMIR</b>	1.201	1.180	1.180	1.132
(xii)	<b>POWER EXCHANGE(IEX)</b>	113.532	109.230	113.532	109.230
(xiii)	<b>POWER EXCHANGE (PX)</b>	0.000	0.000	0.000	0.000
I	<b>TOTAL BILATERAL IMPORT (TOTAL i TO xiii)</b>	581.240	569.273	573.575	550.594
<b>BILATERAL EXPORT</b>					
(I)	<b>ORISSA</b>	-59.034	-59.958	-59.958	-62.485
(ii)	<b>CHHATTISGARH</b>	-35.615	-36.337	-36.337	-37.869
(iii)	<b>JAMMU &amp; KASHMIR</b>	-242.740	-247.733	-247.733	-258.172
(iv)	<b>KERALA</b>	-9.232	-9.429	-9.429	-9.839
(v)	<b>MEGHALAYA</b>	-14.356	-14.595	-14.595	-15.210
(vi)	<b>HIMACHAL PRADESH</b>	-75.184	-77.522	-77.522	-80.788
(vii)	<b>TO POWER EXCHANGE (IEX)</b>	-99.331	-103.718	-99.331	-103.718
(viii)	<b>TO POWER EXCHANGE (PX)</b>	-0.568	-0.594	-0.568	-0.594
(ix)	<b>TO SHARE PROJECT (HARYANA)</b>	-16.570	-17.266	-16.570	-17.266
(x)	<b>TO POWER EXCHANGE (PUNJAB)</b>	-16.570	-17.266	-16.570	-17.266
J	<b>TOTAL BILATERAL EXPORT (TOTAL i TO x )</b>	-569.201	-584.417	-578.614	-603.205
K	<b>NET DRAWAL FROM THE GRID (H+I+J)</b>	2298.423	2178.861	1645.423	1530.418
L	<b>OVER DRAWL(+)/UNDER DRAWAL(-) FROM THE GRID</b>				-13.106
<b>AVAILABILITY FROM OWN SOURCES</b>					
(I)	<b>RAJGHAT POWER HOUSE</b>				0.000
(ii)	<b>GAS TURBINE</b>				31.192
(iii)	<b>PRAGATI</b>				117.661
(iv)	<b>RITHALA</b>				0.000
(v)	<b>BAWANA CCGT</b>				181.078
(vi)	<b>BTPS</b>				119.282
M	<b>TOTAL GENERATION WITHIN DELHI (TOTAL i TO vi)</b>				449.213
<b>RENEWABLE GENERATION</b>					
(I)	<b>TOWMCL</b>				10.260
(ii)	<b>RENEWABLE SOLAR (TPDDL)</b>				0.100904
(iii)	<b>RENEWABLE SOLAR (BRPL)</b>				0.023304
(iv)	<b>RENEWABLE SOLAR (BYPL)</b>				0.006396
(v)	<b>RENEWABLE SOLAR (NDMC)</b>				0.000
(vi)	<b>NON SOLAR (BYPL)</b>				0.734
N	<b>TOTAL RENEWABLE GENERATION (TOTAL i - vi)</b>				<b>11.125</b>
O	<b>TOTAL AVAILABILITY WITHIN DELHI ( M + N )</b>				460.338
P	<b>TOTAL CONSUMPTION (K + L + O)</b>				1977.650
Q	<b>LOAD SHEDDING</b>				4.417
R	<b>REQUIREMENT (P + Q )</b>				1968.633
S	<b>% DEPENDENCE ON GRID</b>				77.39
T	<b>AUXILIARY CONSUMPTION OF GENERATION STATIONS WITHIN DELHI</b>				13.434
U	<b>NET CONSUMPTION OF DTL ( P - T )</b>				1964.216

## 9.11 Power supply position during the month of February 2016

All figures in MUs

S. no.	SOURCE	Availability at Power Plant bus	Availability at Delhi periphery	Allocation made by NRDLC at Power Plant	Allocation Made by NRDLC at Delhi periphery
1	<b>SINGRAULI</b>	92.141	88.384	87.466	83.912
2	<b>RIHAND-I</b>	57.478	55.105	44.223	42.404
3	<b>RIHAND-II</b>	84.046	80.576	70.065	67.180
4	<b>RIHAND-III</b>	88.784	85.117	77.797	74.591
5	<b>UNCHAHAR-I</b>	16.123	15.458	9.245	8.860
6	<b>UNCHAHAR-II</b>	31.466	30.167	22.086	21.167
7	<b>UNCHAHAR-III</b>	19.411	18.610	13.447	12.886
8	<b>DADRI (TH)-I</b>	510.516	489.444	345.261	330.897
9	<b>DADRI(TH)-II</b>	509.732	488.683	392.106	375.870
10	<b>FARAKA</b>	12.531	12.005	7.398	7.086
11	<b>KHELGAON</b>	25.820	24.760	15.085	14.464
12	<b>KHELGAON-II</b>	104.541	100.229	77.326	74.132
13	<b>ANTA(GT)</b>	0.000	0.000	0.000	0.000
14	<b>ANTA(Liquid)</b>	30.291	29.041	0.000	0.000
15	<b>ANTA(RLNG)</b>	0.000	0.000	0.000	0.000
16	<b>AURIYA(GT)</b>	35.866	34.387	11.452	10.977
17	<b>AURIYA(Liquid)</b>	10.278	9.837	0.000	0.000
18	<b>AURIYA(RLNG)</b>	0.000	0.000	0.000	0.000
19	<b>DADRI(GT)</b>	59.212	56.764	19.000	18.214
20	<b>DADRI(Liquid)</b>	2.936	2.818	0.000	0.000
21	<b>DADRI (RLNG)</b>	0.000	0.000	0.000	0.000
22	<b>KOLDAM HEP</b>	2.787	2.662	2.787	2.662
23	<b>TALCHER</b>	0.000	0.000	0.000	0.000
24	<b>TALA</b>	0.662	0.634	0.661	0.633
A	<b>TOTAL NTPC STATIONS (TOTAL 1 - 24)</b>	<b>1694.622</b>	<b>1624.681</b>	<b>1195.403</b>	<b>1145.936</b>
	<b>NHPC STATIONS</b>				
25	<b>TANAKPUR</b>	0.903	0.865	0.678	0.649
26	<b>CHAMERA-I</b>	4.930	4.732	3.679	3.530
27	<b>CHAMERA-II</b>	4.263	4.088	3.180	3.049
28	<b>CHAMERA-III</b>	2.009	1.927	1.499	1.438
29	<b>BAIRA SUIL</b>	1.993	1.914	1.486	1.427
30	<b>SALAL</b>	9.514	9.126	7.100	6.810
31	<b>DAULI GANGA</b>	2.649	2.538	1.976	1.893
32	<b>DULASTI</b>	9.128	8.752	6.810	6.530
33	<b>URI</b>	19.205	18.429	14.337	13.758
34	<b>URIII</b>	13.492	12.943	10.071	9.662
35	<b>SEWA-II</b>	1.757	1.687	1.311	1.259
36	<b>PARBATI3</b>	0.509	0.490	0.380	0.366
B	<b>TOTAL NHPC STATIONS (TOTAL 25-36)</b>	<b>70.352</b>	<b>67.493</b>	<b>52.506</b>	<b>50.371</b>
37	<b>NAPP</b>	30.486	29.227	30.486	29.227
38	<b>RAPP 'B'</b>	0.000	0.000	0.000	0.000
39	<b>RAPP 'C'</b>	37.490	35.943	37.490	35.943
C	<b>TOTAL NPC (TOTAL 37 - 39)</b>	<b>67.976</b>	<b>65.170</b>	<b>67.976</b>	<b>65.170</b>
D	<b>NATHPA JHAKHRI(SJVNL)</b>	17.624	16.897	13.148	12.606
	<b>THDC</b>				
41	<b>TEHRI</b>	13.652	13.088	13.652	13.088
40	<b>KOTESHWAR</b>	8.909	8.542	8.909	8.542
E	<b>TOTAL THDC</b>	<b>22.561</b>	<b>21.630</b>	<b>22.561</b>	<b>21.630</b>
F	<b>JHAJJAR</b>	0.000	0.000	0.000	0.000
G	<b>SASAN</b>	276.418	264.963	277.157	265.663
H	<b>TOTAL CENTRAL SECTOR STATIONS (A+B+C+D+E+F+G)</b>	2149.554	2060.834	1628.751	1561.375

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
<b>BILATERAL IMPORT</b>					
(I)	RASJASTHAN (SOLAR) BRPL	3.908	3.758	3.758	3.616
(ii)	RASJASTHAN (SOLAR) BYPL	3.989	3.836	3.836	3.691
(iii)	RASJASTHAN (SOLAR) TPDDL	3.931	3.780	3.780	3.637
(iv)	CLP JHAJJAR (TPDDL)	8.393	8.238	8.238	7.924
(v)	UTTAR PRADESH	6.620	6.431	6.431	6.189
(vi)	DVC	140.166	138.095	138.095	132.890
(vii)	DVC METHON (TPDDL)	161.845	159.450	159.450	153.467
(viii)	DVC MEJIA -BYPL	64.599	63.642	63.642	61.245
(ix)	JAMMU & KASHMIR	0.697	0.684	0.684	0.659
(x)	POWER EXCHANGE(IEX)	49.235	47.367	49.235	47.367
(xi)	POWER EXCHANGE (PX)	0.000	0.000	0.000	0.000
I	TOTAL BILATERAL IMPORT (TOTAL i TO xi)	443.384	435.281	437.149	420.684
<b>BILATERAL EXPORT</b>					
(I)	ORISSA	-66.985	-67.990	-67.990	-70.918
(ii)	KARNATAKA	-3.007	-3.084	-3.084	-3.200
(iii)	CHHATTISGARH	-30.577	-31.207	-31.207	-32.558
(iv)	JAMMU & KASHMIR	-289.564	-295.798	-295.798	-308.546
(v)	KERALA	-8.049	-8.235	-8.235	-8.547
(vi)	MEGHALAYA	-19.011	-19.363	-19.363	-20.197
(vii)	HIMACHAL PRADESH	-70.030	-72.276	-72.276	-75.390
(viii)	TO POWER EXCHANGE (IEX)	-110.080	-114.764	-110.080	-114.764
(ix)	TO POWER EXCHANGE (PX)	-0.059	-0.061	-0.059	-0.061
(x)	TO SHARE PROJECT (HARYANA)	-16.682	-17.400	-16.682	-17.400
(xi)	TO POWER EXCHANGE (PUNJAB)	-16.682	-17.400	-16.682	-17.400
J	TOTAL BILATERAL EXPORT (TOTAL i TO xi)	-630.725	-647.577	-641.454	-668.981
K	NET DRAWAL FROM THE GRID (H+I+J)	1962.213	1848.537	1424.446	1313.078
L	OVER DRAWL(+)/UNDER DRAWAL(-) FROM THE GRID				30.438
<b>AVAILABILITY FROM OWN SOURCES</b>					
(I)	RAJGHAT POWER HOUSE				0.000
(ii)	GAS TURBINE				27.934
(iii)	PRAGATI				100.814
(iv)	RITHALA				0.000
(v)	BAWANA CCGT				180.850
(vi)	BTPS				111.820
M	TOTAL GENERATION WITHIN DELHI (TOTAL i TO vi)				421.418
<b>RENEWABLE GENERATION</b>					
(I)	TOWMCL				11.691
(ii)	RENEWABLE SOLAR (TPDDL)				0.171355
(iii)	RENEWABLE SOLAR (BRPL)				0.042993
(iv)	RENEWABLE SOLAR (BYPL)				0.011442
(v)	RENEWABLE SOLAR (NDMC)				0.000
(vi)	NON SOLAR (BYPL)				0.919
N	TOTAL RENEWABLE GENERATION (TOTAL i - vi)				<b>12.835</b>
O	TOTAL AVAILABILITY WITHIN DELHI ( M + N )				434.253
P	TOTAL CONSUMPTION (K + L + O)				1777.770
Q	LOAD SHEDDING				1.261
R	REQUIREMENT (P + Q )				1766.940
S	% DEPENDENCE ON GRID				73.86
T	AUXILIARY CONSUMPTION OF GENERATION STATIONS WITHIN DELHI				12.091
U	NET CONSUMPTION OF DTL ( P - T )				1765.679

## 9.12 Power supply position during the month of March 2016

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	<b>SINGRAULI</b>	98.430	95.148	95.068	91.899
2	<b>RIHAND-I</b>	59.575	57.591	49.174	47.540
3	<b>RIHAND-II</b>	89.408	86.441	80.540	77.871
4	<b>RIHAND-III</b>	93.610	90.503	88.445	85.512
5	<b>UNCHAHAR-I</b>	15.069	14.568	9.826	9.501
6	<b>UNCHAHAR-II</b>	32.965	31.870	23.683	22.899
7	<b>UNCHAHAR-III</b>	20.548	19.865	14.654	14.170
8	<b>DADRI (TH)-I</b>	545.531	527.429	228.147	220.611
9	<b>DADRI(TH)-II</b>	501.758	484.992	365.937	353.711
10	<b>FARAKA</b>	7.753	7.501	6.578	6.364
11	<b>KHELGAON</b>	27.743	26.821	21.534	20.821
12	<b>KHELGAON-II</b>	108.518	104.925	90.942	87.940
13	<b>ANTA(GT)</b>	4.604	4.460	1.917	1.857
14	<b>ANTA(Liquid)</b>	26.181	25.299	0.000	0.000
15	<b>ANTA(RLNG)</b>	0.000	0.000	0.000	0.000
16	<b>AURIYA(GT)</b>	10.981	10.605	2.809	2.714
17	<b>AURIYA(Liquid)</b>	33.894	32.786	0.000	0.000
18	<b>AURIYA(RLNG)</b>	0.000	0.000	0.000	0.000
19	<b>DADRI(GT)</b>	32.816	31.723	10.823	10.463
20	<b>DADRI(Liquid)</b>	29.694	28.718	0.000	0.000
21	<b>DADRI (RLNG)</b>	0.000	0.000	0.000	0.000
22	<b>KOLDAM HEP</b>	0.000	0.000	0.000	0.000
23	<b>TALCHER</b>	0.000	0.000	0.000	0.000
24	<b>TALA</b>	0.998	0.965	0.998	0.965
A	<b>TOTAL NTPC STATIONS (TOTAL 1 - 24)</b>	<b>1740.074</b>	<b>1682.209</b>	<b>1091.075</b>	<b>1054.836</b>
	<b>NHPC STATIONS</b>				
25	<b>TANAKPUR</b>	0.645	0.624	0.481	0.465
26	<b>CHAMERA-I</b>	9.203	8.897	6.865	6.637
27	<b>CHAMERA-II</b>	7.858	7.600	5.862	5.669
28	<b>CHAMERA-III</b>	4.122	3.986	3.056	2.956
29	<b>BAIRA SUIL</b>	7.642	7.390	5.701	5.513
30	<b>SALAL</b>	24.446	23.637	18.237	17.633
31	<b>DAULI GANGA</b>	2.880	2.785	2.148	2.077
32	<b>DULASTI</b>	12.874	12.450	9.604	9.288
33	<b>URI</b>	32.424	31.350	24.189	23.388
34	<b>URIII</b>	20.490	19.810	15.284	14.778
35	<b>SEWA-II</b>	8.203	7.932	6.121	5.919
36	<b>PARBATI3</b>	2.034	1.967	1.517	1.467
B	<b>TOTAL NHPC STATIONS (TOTAL 25-36)</b>	<b>132.821</b>	<b>128.428</b>	<b>99.066</b>	<b>95.789</b>
37	<b>NAPP</b>	32.275	31.204	32.224	31.155
38	<b>RAPP 'B'</b>	0.000	0.000	0.000	0.000
39	<b>RAPP 'C'</b>	39.651	38.335	39.651	38.335
C	<b>TOTAL NPC (TOTAL 37 - 39)</b>	<b>71.927</b>	<b>69.540</b>	<b>71.876</b>	<b>69.490</b>
D	<b>NATHPA JHAKHRI(SJVNL)</b>	20.222	19.551	15.086	14.585
	<b>THDC</b>				
41	<b>TEHRI</b>	11.959	11.561	11.959	11.561
40	<b>KOTESHWAR</b>	8.656	8.368	8.656	8.368
E	<b>TOTAL THDC</b>	<b>20.615</b>	<b>19.930</b>	<b>20.615</b>	<b>19.930</b>
F	<b>JHAJJAR</b>	150.333	145.345	27.459	26.551
G	<b>SASAN</b>	303.111	293.053	303.040	292.982
H	<b>TOTAL CENTRAL SECTOR STATIONS (A+B+C+D+E+F+G)</b>	2439.103	2358.055	1628.215	1574.164

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
	<b>BILATERAL IMPORT</b>				
(I)	RASJASTHAN (SOLAR) BRPL	4.221	4.091	4.091	3.955
(ii)	RASJASTHAN (SOLAR) BYPL	4.223	4.092	4.092	3.956
(iii)	RASJASTHAN (SOLAR) TPDDL	4.173	4.044	4.044	3.910
(iv)	CLP JHAJJAR (TPDDL)	1.773	1.747	1.747	1.684
(v)	DVC	225.004	222.513	222.513	215.169
(vi)	DVC METHON (TPDDL)	182.876	180.856	180.856	174.869
(vii)	DVC MEJIA - BYPL	33.202	32.787	32.787	31.712
(viii)	HIMACHAL PRADESH	0.131	0.128	0.128	0.123
(ix)	JAMMU & KASHMIR	1.292	1.278	1.278	1.238
(x)	POWER EXCHANGE(IEX)	153.272	148.288	153.272	148.288
(xi)	POWER EXCHANGE (PX)	0.000	0.000	0.000	0.000
I	<b>TOTAL BILATERAL IMPORT (TOTAL i TO xi )</b>	610.166	599.822	604.805	584.904
	<b>BILATERAL EXPORT</b>				
(I)	ORISSA	-72.038	-72.861	-72.861	-75.360
(ii)	UTTAR PRADESH	-2.243	-2.310	-2.310	-2.391
(iii)	CHHATTISGARH	-53.525	-54.646	-54.646	-56.521
(iv)	JAMMU & KASHMIR	-283.011	-287.404	-287.404	-297.265
(v)	KERALA	-4.591	-4.692	-4.692	-4.858
(vi)	MEGHALAYA	-25.355	-25.873	-25.873	-26.766
(vii)	HIMACHAL PRADESH	-42.310	-43.446	-43.446	-44.936
(viii)	TO POWER EXCHANGE (IEX)	-39.857	-41.236	-39.857	-41.236
(ix)	TO POWER EXCHANGE (PX)	0.000	0.000	0.000	0.000
(x)	TO SHARE PROJECT (HARYANA)	-13.118	-13.577	-13.118	-13.577
(xi)	TO POWER EXCHANGE (PUNJAB)	-13.175	-13.636	-13.175	-13.636
J	<b>TOTAL BILATERAL EXPORT (TOTAL i TO xi )</b>	-549.223	-559.682	-557.383	-576.546
K	<b>NET DRAWAL FROM THE GRID (H+I+J)</b>	2500.046	2398.194	1675.637	1582.522
L	<b>OVER DRAWL(+)/UNDER DRAWAL(-) FROM THE GRID</b>				55.924
	<b>AVAILABILITY FROM OWN SOURCES</b>				
(I)	RAJGHAT POWER HOUSE				0.000
(ii)	GAS TURBINE				29.021
(iii)	PRAGATI				7.326
(iv)	RITHALA				0.000
(v)	BAWANA CCGT				131.663
(vi)	BTPS				117.006
M	<b>TOTAL GENERATION WITHIN DELHI (TOTAL i TO vi)</b>				285.016
	<b>RENEWABLE GENERATION</b>				
(I)	TOWMCL				13.767
(ii)	RENEWABLE SOLAR (TPDDL)				0.205710
(iii)	RENEWABLE SOLAR (BRPL)				0.071986
(iv)	RENEWABLE SOLAR (BYPL)				0.025288
(v)	RENEWABLE SOLAR (NDMC)				0.000
(vi)	NON SOLAR (BYPL)				-0.210
N	<b>TOTAL RENEWABLE GENERATION (TOTAL i - vi)</b>				<b>13.860</b>
O	<b>TOTAL AVAILABILITY WITHIN DELHI ( M + N )</b>				298.876
P	<b>TOTAL CONSUMPTION (K + L + O)</b>				1937.321
Q	<b>LOAD SHEDDING</b>				3.029
R	<b>REQUIREMENT (P + Q )</b>				1930.605
S	<b>% DEPENDENCE ON GRID</b>				81.69
T	<b>AUXILIARY CONSUMPTION OF GENERATION STATIONS WITHIN DELHI</b>				9.745
U	<b>NET CONSUMPTION OF DTL ( P - T )</b>				1927.576

## 9.13 Consolidated Power Supply Position for 2015-16

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	1160.878	1126.203	1086.183	1053.715
2	RIHAND-I	692.281	671.560	581.348	564.130
3	RIHAND-II	966.567	937.427	813.857	789.310
4	RIHAND-III	936.305	907.179	819.902	794.380
5	UNCHAHAR-I	187.527	181.817	123.856	120.090
6	UNCHAHAR-II	379.147	367.779	272.341	264.177
7	UNCHAHAR-III	221.013	214.435	156.530	151.883
8	DADRI (TH)-I	5396.296	5232.800	2882.864	2793.152
9	DADRI(TH)-II	6306.910	6118.390	4362.503	4232.598
10	FARAKA	148.538	144.043	105.047	101.921
11	KHELGAON	367.734	356.864	251.433	244.075
12	KHELGAON-II	1221.635	1184.582	959.160	930.218
13	ANTA(GT)	122.246	118.828	73.540	71.528
14	ANTA(Liquid)	222.340	215.411	4.683	4.496
15	ANTA(RLNG)	13.045	12.673	0.000	0.000
16	AURIYA(GT)	229.402	222.262	99.907	96.904
17	AURIYA(Liquid)	368.344	357.605	4.840	4.652
18	AURIYA(RLNG)	0.145	0.141	0.035	0.034
19	DADRI(GT)	427.131	413.826	206.969	200.841
20	DADRI(Liquid)	280.466	272.335	3.063	2.970
21	DADRI (RLNG)	20.459	19.965	0.000	0.000
22	KOLDAM HEP	113.980	111.074	113.959	111.054
23	TALCHER	0.000	0.000	0.000	0.000
24	TALA	124.201	120.988	124.244	121.031
A	TOTAL NTPC STATIONS (TOTAL 1 - 24)	19906.591	19308.186	13046.264	12653.160
	NHPC STATIONS				
25	TANAKPUR	49.476	48.149	31.941	31.103
26	CHAMERA-I	202.007	196.270	118.304	115.017
27	CHAMERA-II	196.582	191.059	116.619	113.418
28	CHAMERA-III	128.828	125.193	74.810	72.746
29	BAIRA SUIL	78.275	76.017	45.472	44.185
30	SALAL	397.775	386.567	238.586	232.001
31	DAULI GANGA	136.889	133.157	87.020	84.693
32	DULASTI	292.859	284.649	287.242	279.237
33	URI	352.278	341.984	220.075	213.703
34	URIII	156.771	152.247	148.561	144.337
35	SEWA-II	73.315	71.183	42.769	41.547
36	PARBATI3	80.447	78.285	78.377	76.269
B	TOTAL NHPC STATIONS (TOTAL 25-36)	2145.500	2084.761	1489.777	1448.255
37	NAPP	333.422	323.285	333.344	323.210
38	RAPP 'B'	0.000	0.000	0.000	0.000
39	RAPP 'C'	433.233	420.087	432.785	419.650
C	TOTAL NPC (TOTAL 37 - 39)	766.654	743.372	766.128	742.860
D	NATHPA JHAKHRI(SJVNL)	681.276	662.346	406.330	395.187

S. no.	SOURCE	Availability at Power Plant bus	Availability at Delhi periphery	Allocation made by NRDLC at Power Plant	Allocation Made by NRDLC at Delhi periphery
	THDC				
41	TEHRI	267.069	259.507	266.562	259.020
40	KOTESHWAR	121.257	117.671	121.386	117.797
E	TOTAL THDC	388.327	377.179	387.948	376.817
F	JHAJJAR	794.619	773.847	192.230	187.281
G	SASAN	3279.261	3180.796	3257.022	3159.090
H	TOTAL CENTRAL SECTOR STATIONS (A+B+C+D+E+F+G)	27962.228	27130.488	19545.700	18962.651
	BILATERAL IMPORT				
(I)	RAJASTHAN	0.200	0.192	0.192	0.184
(ii)	ASSAM	30.465	30.007	30.007	29.195
(iii)	TRIPURA	2.135	2.104	2.104	2.026
(iv)	MEGHALAYA	65.937	65.198	65.198	63.574
(v)	MADHYA PRADESH	300.987	296.857	296.857	289.786
(vi)	RASJASTHAN (SOLAR) BRPL	33.107	32.225	32.225	31.265
(vii)	RASJASTHAN (SOLAR) BYPL	33.585	32.687	32.687	31.713
(viii)	RASJASTHAN (SOLAR) TPDDL	33.450	32.562	32.562	31.593
(ix)	CLP JHAJJAR (TPDDL)	263.757	260.958	260.958	253.367
(x)	UTTAR PRADESH	18.181	17.684	17.684	17.005
(xi)	UN-REQUISITIONED SURPLUS	1.023	0.999	1.023	0.999
(xii)	MAHARASHTRA	0.135	0.132	0.132	0.129
(xiii)	DVC	2147.686	2124.660	2124.660	2062.750
(xiv)	DVC CTPS (BRPL)	0.000	0.000	0.000	0.000
(xv)	DVC CTPS (BYPL)	0.000	0.000	0.000	0.000
(xvi)	DVC CTPS (TPDDL)	0.000	0.000	0.000	0.000
(xvii)	DVC METHON (TPDDL)LT-06	2125.101	2101.413	2101.413	2040.599
(xviii)	DVC MEJIA -BYPL	561.049	554.723	554.723	538.206
(xix)	CHATTISHGARH	0.016	0.015	0.015	0.015
(xx)	UTTRANCHAL	0.000	0.000	0.000	0.000
(xxi)	JHARKHAND	0.000	0.000	0.000	0.000
(xxii)	ORISSA	115.557	114.215	114.215	111.312
(xxiii)	PUNJAB	26.758	26.308	26.308	25.280
(xxiv)	HIMACHAL PRADESH	463.109	457.043	457.043	444.419
(xxv)	JAMMU & KASHMIR	747.702	739.365	739.365	719.329
(xxvi)	POWER EXCHANGE(IEX)	1690.879	1643.527	1690.879	1643.527
(xxvii)	POWER EXCHANGE (PX)	0.000	0.000	0.000	0.000
	TOTAL BILATERAL IMPORT (TOTAL i TO )	8660.817	8532.874	8580.250	8336.273
	BILATERAL EXPORT				
(I)	ORISSA	-464.114	-470.090	-470.090	-486.218
(ii)	UTTAR PRADESH	-18.908	-19.301	-19.301	-19.888
(iii)	BIHAR	-1.155	-1.167	-1.167	-1.189
(iv)	KARNATAKA	-4.759	-4.884	-4.884	-5.060
(v)	PUNJAB	-62.262	-62.838	-62.838	-64.319
(vi)	CHHATTISGARH	-226.075	-230.586	-230.586	-238.320
(vii)	JAMMU & KASHMIR	-1389.114	-1411.902	-1411.902	-1462.402
(viii)	KERALA	-68.854	-70.485	-70.485	-72.915
(ix)	TRIPURA	-1.915	-1.926	-1.926	-1.965
(x)	MEGHALAYA	-58.815	-59.927	-59.927	-62.270
(xi)	HIMACHAL PRADESH	-308.272	-316.788	-316.788	-328.513

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
(xii)	WEST BENGAL	-28.203	-28.521	-28.521	-29.417
(xiii)	UTTRANCHAL	0.000	0.000	0.000	0.000
(xiv)	HARYANA	-16.779	-17.007	-17.007	-17.383
(xv)	TO POWER EXCHANGE (IEX)	-569.038	-588.446	-569.038	-588.446
(xvi)	TO POWER EXCHANGE (PX)	-36.160	-37.292	-36.160	-37.292
(xvii)	TO SHARE PROJECT (HARYANA)	-158.877	-163.943	-158.877	-163.943
(xviii)	TO POWER EXCHANGE (PUNJAB)	-146.630	-151.329	-146.630	-151.329
J	TOTAL BILATER EXPORT (TOTAL i TO xi )	-3559.928	-3636.429	-3606.125	-3730.869
K	NET DRAWAL FROM THE GRID (H+I+J)	33063.117	32026.933	24519.825	23568.055
L	OVER DRAWL(+)/UNDER DRAWAL(-) FROM THE GRID				145.538
	AVAILABILITY FROM OWN SOURCES				
(i)	RAJGHAT POWER HOUSE				46.594
(ii)	GAS TURBINE				466.474
(iii)	PRAGATI				1539.214
(iv)	RITHALA				0.000
(v)	BAWANA CCGT				1911.525
(vi)	BTPS				2006.153
M	TOTAL GENERATION WITHIN DELHI (TOTAL i TO vi)				5969.960
	RENEWABLE GENERATION				
(i)	TOWMCL				147.522
(ii)	RENEWABLE SOLAR (TPDDL)				2.062
(iii)	RENEWABLE SOLAR (BRPL)				0.433
(iv)	RENEWABLE SOLAR (BYPL)				0.259
(v)	RENEWABLE SOLAR (NDMC)				0.000
(vi)	NON SOLAR (BYPL)				1.258
N	TOTAL RENEWABLE GENERATION (TOTAL i - vi)				151.534
O	TOTAL AVAILABILITY WITHIN DELHI ( M + N )				6121.494
P	TOTAL CONSUMPTION (K + L + O)				29740.516
Q	LOAD SHEDDING				42.048
R	REQUIREMENT (P + Q )				29607.771
S	% DEPENDENCE ON GRID				78.93
T	AUXILIARY CONSUMPTION OF GENERATION STATIONS WITHIN DELHI				174.793
U	NET CONSUMPTION OF DTL ( P - T )				29565.723

## 9.14 LOAD SHEDDING DETAILS FOR 2015-16

Month	Number of Under Frequency Trippings	Load shedding due to under Frequency Relay Operation				
		BYPL	BRPL	TPDDL	NDMC	Total
Apr 2015	0	0.000	0.000	0.000	0.000	<b>0.000</b>
May 2015	0	0.000	0.000	0.000	0.000	<b>0.000</b>
Jun 2015	2	0.000	0.000	0.001	0.000	<b>0.001</b>
July 2015	1	0.000	0.000	0.001	0.000	<b>0.001</b>
Aug. 2015	0	0.000	0.000	0.000	0.000	<b>0.000</b>
Sept 2015	1	0.000	0.000	0.001	0.000	<b>0.001</b>
Oct. 2015	1	0.000	0.000	0.011	0.000	<b>0.011</b>
Nov. 2015	2	0.003	0.000	0.003	0.000	<b>0.006</b>
Dec. 2015	1	0.000	0.000	0.001	0.000	<b>0.001</b>
Jan. 2016	2	0.000	0.001	0.000	0.000	<b>0.001</b>
Feb. 2016	0	0.000	0.000	0.000	0.000	<b>0.000</b>
Mar. 2016	0	0.000	0.000	0.000	0.000	<b>0.000</b>
<b>TOTAL</b>	<b>10</b>	<b>0.003</b>	<b>0.001</b>	<b>0.018</b>	<b>0.000</b>	<b>0.022</b>

Months	Load Shedding due to Grid Restriction								
	To restrict over drawal at low frequency and low voltage					Due to TTC / ATC Violation			
	BYPL	BRPL	TPDDL	NDMC	MES	BYPL	BRPL	TPDDL	NDMC
Apr 2015	0.044	0.398	0.131	0.000	0.000	0.000	0.000	0.000	0.000
May 2015	0.097	0.626	0.158	0.016	0.000	0.000	0.000	0.000	0.000
Jun 2015	0.000	0.670	0.335	0.022	0.000	0.030	0.046	0.043	0.000
July 2015	0.000	0.307	0.193	0.008	0.000	0.000	0.000	0.000	0.000
Aug. 2015	0.042	0.969	0.163	0.010	0.000	0.000	0.000	0.000	0.000
Sept 2015	0.007	0.775	0.332	0.000	0.000	0.000	0.000	0.000	0.000
Oct. 2015	0.036	1.195	0.233	0.000	0.000	0.000	0.000	0.000	0.000
Nov. 2015	0.127	2.745	0.191	0.000	0.000	0.000	0.000	0.000	0.000
Dec. 2015	0.161	1.668	0.179	0.000	0.000	0.000	0.000	0.000	0.000
Jan. 2016	0.039	0.941	0.122	0.000	0.000	0.000	0.000	0.000	0.000
Feb. 2016	0.000	0.294	0.113	0.000	0.000	0.000	0.000	0.000	0.000
Mar. 2016	0.057	0.423	0.012	0.000	0.000	0.000	0.000	0.000	0.000
<b>TOTAL</b>	<b>0.610</b>	<b>11.011</b>	<b>2.162</b>	<b>0.056</b>	<b>0.000</b>	<b>0.030</b>	<b>0.046</b>	<b>0.043</b>	<b>0.000</b>

Month	Load Shedding due to Transmission Constraints in Central Sector Transmission System				Total	Total Shedding due to Grid Restrictions
	BYPL	BRPL	TPDDL	NDMC		
Apr 2015	0.000	0.000	0.000	0.000	<b>0.573</b>	<b>0.573</b>
May 2015	0.000	0.000	0.000	0.000	<b>0.897</b>	<b>0.897</b>
Jun 2015	0.069	0.134	0.140	0.000	<b>1.489</b>	<b>1.490</b>
July 2015	0.000	0.000	0.000	0.000	<b>0.508</b>	<b>0.509</b>
Aug. 2015	0.000	0.000	0.000	0.000	<b>1.184</b>	<b>1.184</b>
Sept 2015	0.007	0.082	0.040	0.000	<b>1.243</b>	<b>1.244</b>
Oct. 2015	0.000	0.000	0.000	0.000	<b>1.464</b>	<b>1.475</b>
Nov. 2015	0.000	0.000	0.000	0.000	<b>3.063</b>	<b>3.069</b>
Dec. 2015	0.000	0.000	0.000	0.000	<b>2.008</b>	<b>2.009</b>
Jan. 2016	0.000	0.000	0.000	0.000	<b>1.102</b>	<b>1.103</b>
Feb. 2016	0.000	0.000	0.000	0.000	<b>0.407</b>	<b>0.407</b>
Mar. 2016	0.039	0.056	0.030	0.000	<b>0.617</b>	<b>0.617</b>
<b>TOTAL</b>	<b>0.115</b>	<b>0.272</b>	<b>0.210</b>	<b>0.000</b>	<b>14.555</b>	<b>14.577</b>

Month	Load Shedding due to Trippings / Break-downs / Shut-downs / Constraints in DTL System					Total
	BYPL	BRPL	TPDDL	NDMC	MES	
Apr 2015	0.082	0.469	0.148	0.000	0.000	<b>0.699</b>
May 2015	0.375	1.144	0.320	0.000	0.000	<b>1.839</b>
Jun 2015	0.466	0.720	0.279	0.000	0.000	<b>1.465</b>
July 2015	0.284	0.627	0.042	0.033	0.000	<b>0.986</b>
Aug. 2015	0.380	0.261	0.153	0.000	0.000	<b>0.794</b>
Sept 2015	0.622	0.407	0.702	0.007	0.000	<b>1.738</b>
Oct. 2015	0.046	0.048	0.058	0.000	0.000	<b>0.152</b>
Nov. 2015	0.008	0.040	0.052	0.001	0.000	<b>0.101</b>
Dec. 2015	0.023	0.043	0.041	0.000	0.000	<b>0.107</b>
Jan. 2016	0.684	0.702	0.690	0.000	0.000	<b>2.076</b>
Feb. 2016	0.006	0.064	0.049	0.000	0.000	<b>0.119</b>
Mar. 2016	0.386	0.083	0.051	0.000	0.000	<b>0.520</b>
<b>TOTAL</b>	<b>3.362</b>	<b>4.608</b>	<b>2.585</b>	<b>0.041</b>	<b>0.000</b>	<b>10.596</b>

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	TPDDL	NDMC	BYPL	BRPL	TPDDL	NDMC	Total
Apr 2015	0.275	0.216	0.072	0.000	0.000	0.000	0.000	0.000	0.000
May 2015	0.360	1.823	0.141	0.001	0.000	0.000	0.000	0.000	0.000
Jun 2015	0.395	1.219	0.272	0.000	0.000	0.000	0.001	0.000	0.001
July 2015	0.470	1.091	0.078	0.000	0.006	0.001	0.122	0.000	0.129
Aug. 2015	0.426	0.725	0.203	0.000	0.000	0.000	0.000	0.000	0.000
Sept 2015	0.244	0.971	0.183	0.000	0.000	0.016	0.082	0.000	0.098
Oct. 2015	0.049	0.260	0.122	0.000	0.000	0.039	0.474	0.000	0.513
Nov. 2015	0.057	0.325	0.019	0.000	0.000	0.005	0.001	0.000	0.006
Dec. 2015	0.044	0.316	0.043	0.000	0.000	0.000	0.000	0.000	0.000
Jan. 2016	0.062	0.665	0.313	0.000	0.000	0.036	0.018	0.000	0.054
Feb. 2016	0.161	0.423	0.058	0.000	0.000	0.000	0.000	0.000	0.000
Mar. 2016	0.255	1.545	0.046	0.000	0.000	0.000	0.000	0.000	0.000
<b>TOTAL</b>	<b>2.798</b>	<b>9.579</b>	<b>1.550</b>	<b>0.001</b>	<b>0.006</b>	<b>0.097</b>	<b>0.698</b>	<b>0.000</b>	<b>0.801</b>

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	TPDDL						
Apr 2015	0.000	0.000	0.168	<b>1.430</b>	<b>2.003</b>	2260.411	4517	30.04.2015	15:32:55
May 2015	0.000	0.000	0.262	<b>4.426</b>	<b>5.323</b>	3086.700	5465	26.05.2015	15:47:18
Jun 2015	0.000	0.000	0.236	<b>3.588</b>	<b>5.078</b>	3092.565	5846	19.06.2015	15:39:51
July 2015	0.000	0.000	0.082	<b>2.836</b>	<b>3.345</b>	3115.526	5743	03.07.2015	15:39:10
Aug. 2015	0.000	0.000	0.182	<b>2.330</b>	<b>3.514</b>	3078.010	5434	27.08.2015	22:54:38
Sept 2015	0.000	0.000	0.264	<b>3.498</b>	<b>4.742</b>	3042.194	5457	15.09.2015	22:56:50
Oct. 2015	0.000	0.000	0.268	<b>1.364</b>	<b>2.839</b>	2531.227	4481	09.10.2015	16:03:17
Nov. 2015	0.000	0.000	0.131	<b>0.639</b>	<b>3.708</b>	1800.142	3512	03.11.2015	18:33:33
Dec. 2015	0.000	0.000	0.270	<b>0.780</b>	<b>2.789</b>	1901.477	3944	25.12.2015	10:31:30
Jan. 2016	0.000	0.000	0.144	<b>3.314</b>	<b>4.417</b>	1964.216	4125	22.01.2016	09:59:33
Feb. 2016	0.000	0.000	0.092	<b>0.854</b>	<b>1.261</b>	1765.679	3845	03.02.2016	09:55:29
Mar. 2016	0.000	0.000	0.046	<b>2.412</b>	<b>3.029</b>	1927.576	3617	31.03.2016	19:21
<b>TOTAL</b>	<b>0.000</b>	<b>0.000</b>	<b>2.145</b>	<b>27.471</b>	<b>42.048</b>	<b>29565.723</b>	<b>5846</b>	<b>19.06.2015</b>	<b>15:39:51</b>

<b>Month</b>	<b>Shedding at the time of Peak Demand</b>	<b>Un-restricted Demand</b>	<b>Maximum Un-restricted Demand in MW</b>	<b>Date</b>	<b>Time</b>	<b>Demand at that Time</b>	<b>Shedding at that time</b>
<b>Apr 2015</b>	1	<b>4518</b>	<b>4518</b>	30.04.2015	15:32:55	4517	1
<b>May 2015</b>	3	<b>5468</b>	<b>5468</b>	26.05.2015	15:47:18	5465	3
<b>Jun 2015</b>	0	<b>5846</b>	<b>5846</b>	19:06.2015	15:39:51	5846	0
<b>July 2015</b>	0	<b>5743</b>	<b>5743</b>	03.07.2015	15:39:10	5743	0
<b>Aug. 2015</b>	4	<b>5438</b>	<b>5438</b>	27.08.2015	22:54:38	5434	4
<b>Sept 2015</b>	6	<b>5463</b>	<b>5463</b>	15.09.2015	22:56:50	5457	6
<b>Oct. 2015</b>	0	<b>4481</b>	<b>4481</b>	09.10.2015	16:03:17	4481	0
<b>Nov. 2015</b>	0	<b>3512</b>	<b>3512</b>	03.11.2015	18:33:33	3512	0
<b>Dec. 2015</b>	24	<b>3968</b>	<b>3968</b>	25.12.2015	10:31:30	3944	24
<b>Jan. 2016</b>	51	<b>4176</b>	<b>4176</b>	22.01.2016	09:59:33	4125	51
<b>Feb. 2016</b>	4	<b>3849</b>	<b>3849</b>	03.02.2016	09:55:29	3845	4
<b>Mar. 2016</b>	1	<b>3618</b>	<b>3618</b>	31.03.2016	19:21	3617	1
<b>TOTAL</b>	0	<b>5846</b>	<b>5846</b>	19.06.2015	15:39:51	<b>5846</b>	<b>0</b>

## 9.15 DEMAND - AVAILABILITY-DEMAND POSITION OF DELHI AT THE TIME OF PEAK DEMAND MET DURING 2015-16

Month	Date	Time of peak demand	Generation within Delhi								Import from the Grid	Schedule from the Grid	OD (-) / UD (+)	Demand met	Shedding	Unrestricted Demand
			RPH	GT	PPC L	Bawana	BTP S	Rithala	TOW MC L	Total						
			(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)= (3) to (9)	(11)	(12)	(13)= (12) - (11)	(14)= (12)+ (13)
Apr 15	30	15:32:55	49	70	280	299	305	0	16	1019	3498	3360	-138	4517	1	4518
May 15	26	15:47:18	-3	65	264	276	315	0	13	930	4535	4500	-35	5465	3	5468
Jun 15	19	15:39:51	0	77	261	273	383	0	16	1010	4836	4638	-198	5846	0	5846
July 15	3	15:39:10	0	63	263	282	356	0	16	980	4763	4619	-144	5743	0	5743
Aug. 15	27	22:54:38	0	32	264	-4	318	0	10	620	4814	4689	-125	5434	4	5438
Sept 15	15	22:56:50	0	37	260	264	314	0	3	878	4579	4465	-114	5457	6	5463
Oct. 15	9	16:03:17	0	34	143	260	167	0	3	607	3874	3695	-179	4481	0	4481
Nov. 15	3	18:33:33	0	38	150	251	165	0	14	618	2894	2804	-90	3512	0	3512
Dec. 15	25	10:31:30	0	36	141	255	166	0	13	611	3333	3239	-94	3944	24	3968
Jan. 16	22	09:59:33	0	37	138	252	189	0	13	629	3496	3380	-116	4125	51	4176
Feb. 16	3	09:55:29	0	41	140	253	189	0	15	638	3207	2919	-288	3845	4	3849
Mar. 16	31	19:21:00	0	39	-2	-2	161	0	11	207	3410	3315	-95	3617	1	3618
Max	19.0 6.15	15:39:51	0	77	261	273	383	0	16	1010	4836	4638	-198	5846	0	5846

## 9.16 POWER AVAILABILITY- DEMAND POSITION AT THE TIME OF OCCURRENCE OF MAXIMUM UNRESTRICTED DEMAND DURING 2015-16

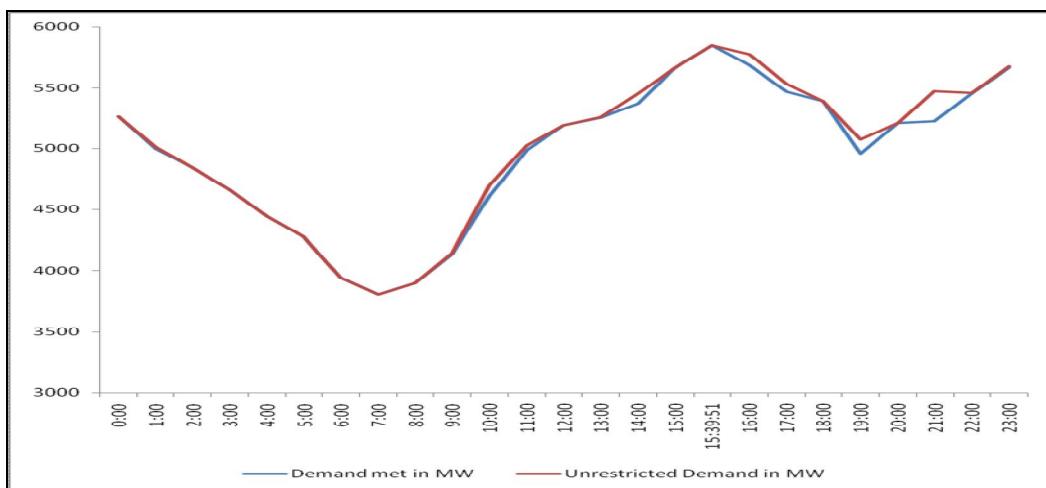
Month	Date	Time of peak demand	Generation within Delhi								Import from the Grid	Schedule from the Grid	OD (-) / UD (+)	Demand met	Shedding	Unrestricted Demand
			RPH	G T	PPC L	Bawana	BTP S	Rithala	TOW MC L	Total						
			(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)= (3) to (9)	(11)	(12)	(13)= (12) - (11)	(14)= (12)+ (13)
Apr 15	30	15:32:55	49	70	280	299	305	0	16	1019	3498	3360	-138	4517	1	4518
May 15	26	15:47:18	-3	65	264	276	315	0	13	930	4535	4500	-35	5465	3	5468
Jun 15	19	15:39:51	0	77	261	273	383	0	16	1010	4836	4638	-198	5846	0	5846
July 15	3	15:39:10	0	63	263	282	356	0	16	980	4763	4619	-144	5743	0	5743
Aug. 15	27	22:54:38	0	32	264	-4	318	0	10	620	4814	4689	-125	5434	4	5438
Sept 15	15	22:56:50	0	37	260	264	314	0	3	878	4579	4465	-114	5457	6	5463
Oct. 15	9	16:03:17	0	34	143	260	167	0	3	607	3874	3695	-179	4481	0	4481
Nov. 15	3	18:33:33	0	38	150	251	165	0	14	618	2894	2804	-90	3512	0	3512
Dec. 15	25	10:31:30	0	36	141	255	166	0	13	611	3333	3239	-94	3944	24	3968
Jan. 16	22	09:59:33	0	37	138	252	189	0	13	629	3496	3380	-116	4125	51	4176
Feb. 16	3	09:55:29	0	41	140	253	189	0	15	638	3207	2919	-288	3845	4	3849
Mar. 16	31	19:21:00	0	39	-2	-2	161	0	11	207	3410	3315	-95	3617	1	3618
Max	19.06.15	15:39:51	0	77	261	273	383	0	16	1010	4836	4638	-198	5846	0	5846

## **9.17 LOAD PATTERN**

### **9.17.1 SUMMER SEASON**

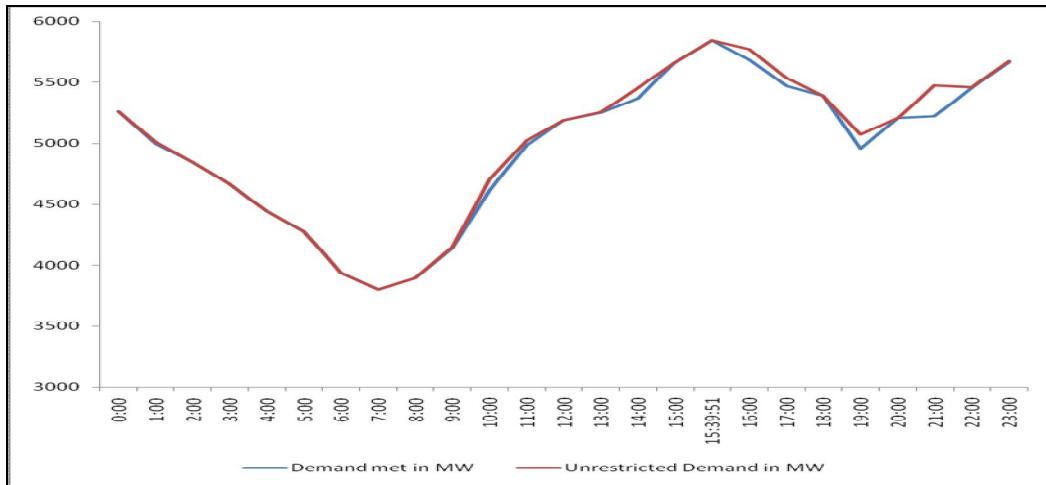
#### **9.17.1.1 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM PEAK DEMAND MET DURING SUMMER 2015-16 - 5846MW at 15:39:51Hrs. on 19.06.2015.**

Time (Hrs).	Demand in MW	Load Shedding in MW	Un-Restricted Demand in MW
0:00	5262	0	5262
1:00	4995	14	5009
2:00	4842	0	4842
3:00	4660	0	4660
4:00	4444	0	4444
5:00	4274	0	4274
6:00	3936	0	3936
7:00	3800	0	3800
8:00	3897	0	3897
9:00	4134	9	4143
10:00	4611	89	4700
11:00	4986	36	5022
12:00	5191	0	5191
13:00	5255	5	5260
14:00	5373	80	5453
15:00	5656	0	5656
<b>15:39:51</b>	<b>5846</b>	0	5846
16:00	5685	84	5769
17:00	5468	63	5531
18:00	5390	0	5390
19:00	4957	116	5073
20:00	5210	0	5210
21:00	5222	251	5473
22:00	5454	6	5460
23:00	5665	9	5674
Energy in Mus	119.098	0.624	119.722



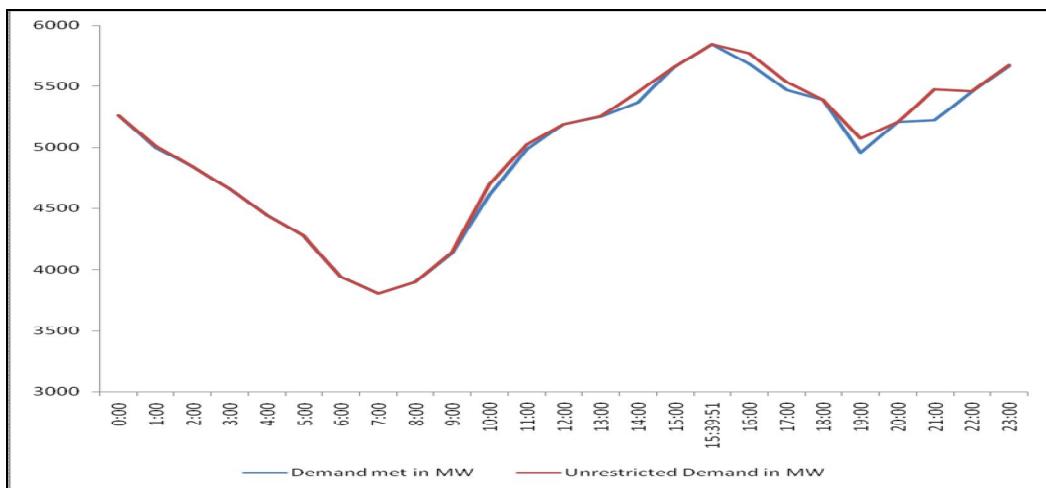
**9.17.1.2 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM UNRESTRICTED DEMAND DURING SUMMER 2015-16 - 5846MW at 15:39:51Hrs. on 19.06.2015.**

Time (Hrs).	Demand in MW	Load Shedding in MW	Un-Restricted Demand in MW
0:00	5262	0	5262
1:00	4995	14	5009
2:00	4842	0	4842
3:00	4660	0	4660
4:00	4444	0	4444
5:00	4274	0	4274
6:00	3936	0	3936
7:00	3800	0	3800
8:00	3897	0	3897
9:00	4134	9	4143
10:00	4611	89	4700
11:00	4986	36	5022
12:00	5191	0	5191
13:00	5255	5	5260
14:00	5373	80	5453
15:00	5656	0	5656
15:39:51	5846	0	<b>5846</b>
16:00	5685	84	5769
17:00	5468	63	5531
18:00	5390	0	5390
19:00	4957	116	5073
20:00	5210	0	5210
21:00	5222	251	5473
22:00	5454	6	5460
23:00	5665	9	5674
Energy in Mus	119.098	0.624	119.722



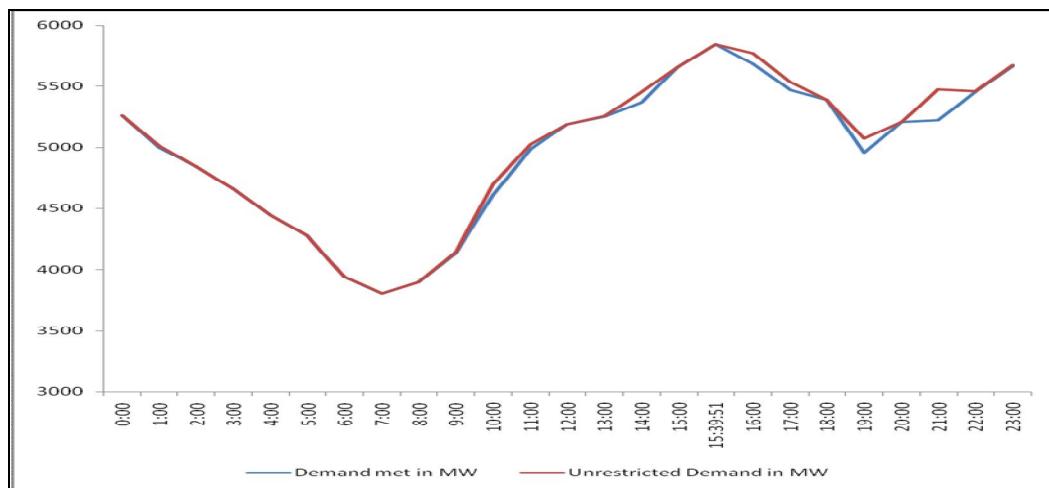
**9.17.1.3 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM ENERGY CONSUMED DURING SUMMER 2015-16 – 119.098 MUs on 19.06.2015.**

Time (Hrs).	Demand in MW	Load Shedding in MW	Un-Restricted Demand in MW
0:00	5262	0	5262
1:00	4995	14	5009
2:00	4842	0	4842
3:00	4660	0	4660
4:00	4444	0	4444
5:00	4274	0	4274
6:00	3936	0	3936
7:00	3800	0	3800
8:00	3897	0	3897
9:00	4134	9	4143
10:00	4611	89	4700
11:00	4986	36	5022
12:00	5191	0	5191
13:00	5255	5	5260
14:00	5373	80	5453
15:00	5656	0	5656
15:39:51	5846	0	5846
16:00	5685	84	5769
17:00	5468	63	5531
18:00	5390	0	5390
19:00	4957	116	5073
20:00	5210	0	5210
21:00	5222	251	5473
22:00	5454	6	5460
23:00	5665	9	5674
Energy in Mus	<b>119.098</b>	0.624	119.722



**9.17.1.4 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM UNRESTRICTED ENERGY DEMAND DURING SUMMER 2015-16 – 119.722 MUs on 19.06.2015.**

Time (Hrs).	Demand in MW	Load Shedding in MW	Un-Restricted Demand in MW
0:00	5262	0	5262
1:00	4995	14	5009
2:00	4842	0	4842
3:00	4660	0	4660
4:00	4444	0	4444
5:00	4274	0	4274
6:00	3936	0	3936
7:00	3800	0	3800
8:00	3897	0	3897
9:00	4134	9	4143
10:00	4611	89	4700
11:00	4986	36	5022
12:00	5191	0	5191
13:00	5255	5	5260
14:00	5373	80	5453
15:00	5656	0	5656
15:39:51	5846	0	5846
16:00	5685	84	5769
17:00	5468	63	5531
18:00	5390	0	5390
19:00	4957	116	5073
20:00	5210	0	5210
21:00	5222	251	5473
22:00	5454	6	5460
23:00	5665	9	5674
Energy in Mus	119.098	0.624	<b>119.722</b>

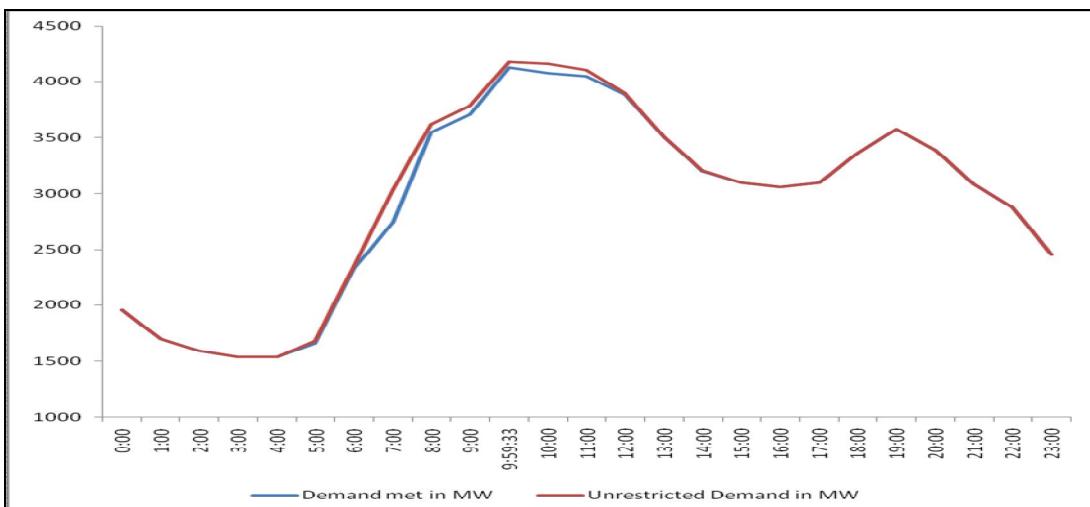


## 9.17.2 WINTER LOAD PATTERN

### 9.17.2.1 LOAD PATTERN OF DELHI ON THE DAY OF PEAK DEMAND MET DURING WINTER 2015-16 - 4125 MW at 09:59:33Hrs. on 22.01.2016

All figures in MW

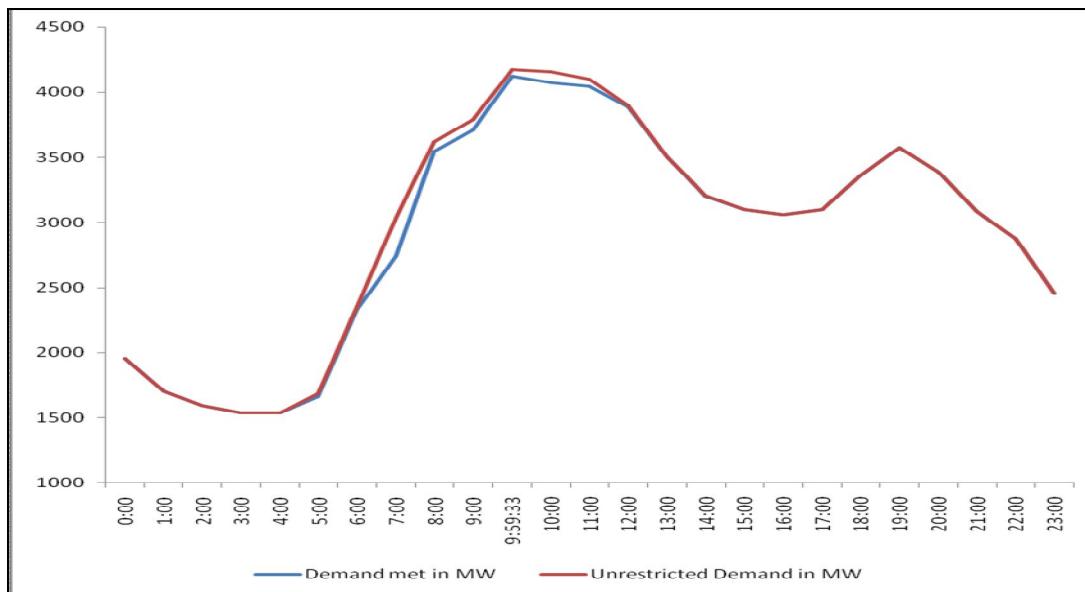
Hrs.	Demand	Load Shedding	Un-Restricted Demand
0:00	1954	0	1954
1:00	1701	0	1701
2:00	1590	0	1590
3:00	1537	0	1537
4:00	1536	0	1536
5:00	1657	23	1680
6:00	2329	23	2352
7:00	2741	299	3040
8:00	3548	71	3619
9:00	3712	74	3786
9:59:33	<b>4125</b>	51	4176
10:00	4077	82	4159
11:00	4047	58	4105
12:00	3886	11	3897
13:00	3504	0	3504
14:00	3203	5	3208
15:00	3102	0	3102
16:00	3058	0	3058
17:00	3102	0	3102
18:00	3356	0	3356
19:00	3574	0	3574
20:00	3386	0	3386
21:00	3091	0	3091
22:00	2874	0	2874
23:00	2458	0	2458
Energy in Mus	68.595	0.588	69.183



**9.17.2.2 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM UN-RESTRICTED DEMAND  
WINTER 2015-16 - 4176 MW at 09:59:33Hrs. on 09.01.2016**

All figures in MW

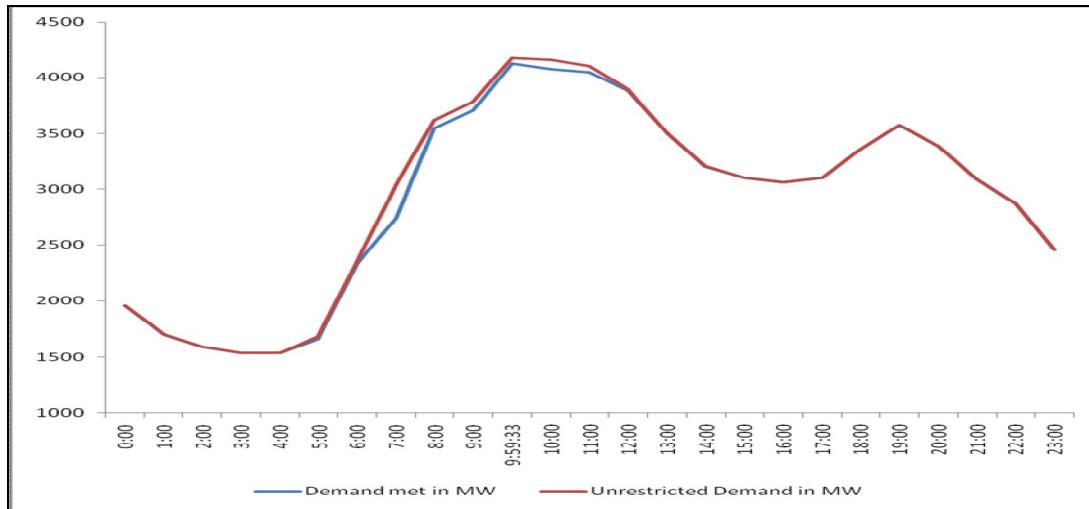
Hrs.	Demand	Load Shedding	Un-Restricted Demand
0:00	1954	0	1954
1:00	1701	0	1701
2:00	1590	0	1590
3:00	1537	0	1537
4:00	1536	0	1536
5:00	1657	23	1680
6:00	2329	23	2352
7:00	2741	299	3040
8:00	3548	71	3619
9:00	3712	74	3786
9:59:33	4125	51	<b>4176</b>
10:00	4077	82	4159
11:00	4047	58	4105
12:00	3886	11	3897
13:00	3504	0	3504
14:00	3203	5	3208
15:00	3102	0	3102
16:00	3058	0	3058
17:00	3102	0	3102
18:00	3356	0	3356
19:00	3574	0	3574
20:00	3386	0	3386
21:00	3091	0	3091
22:00	2874	0	2874
23:00	2458	0	2458
Energy in Mus	68.595	0.588	69.183



**9.17.2.3 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM ENERGY CONSUMED  
DURING WINTER 2015-16 – 68.595 MUs ON 22.01.2016**

All figures in MW

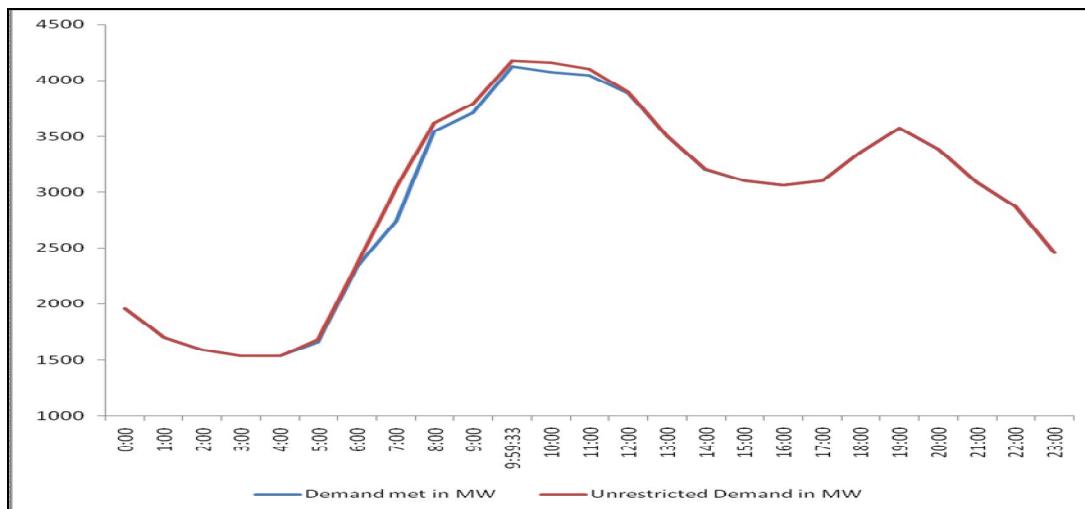
Hrs.	Demand	Load Shedding	Un-Restricted Demand
0:00	1954	0	1954
1:00	1701	0	1701
2:00	1590	0	1590
3:00	1537	0	1537
4:00	1536	0	1536
5:00	1657	23	1680
6:00	2329	23	2352
7:00	2741	299	3040
8:00	3548	71	3619
9:00	3712	74	3786
9:59:33	4125	51	4176
10:00	4077	82	4159
11:00	4047	58	4105
12:00	3886	11	3897
13:00	3504	0	3504
14:00	3203	5	3208
15:00	3102	0	3102
16:00	3058	0	3058
17:00	3102	0	3102
18:00	3356	0	3356
19:00	3574	0	3574
20:00	3386	0	3386
21:00	3091	0	3091
22:00	2874	0	2874
23:00	2458	0	2458
Energy in Mus	<b>68.595</b>	0.588	69.183



**9.17.2.4 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM UNRESTRICTED ENERGY DEMAND DURING WINTER 2015-16 – 69.183 MUs ON 22.01.2016.**

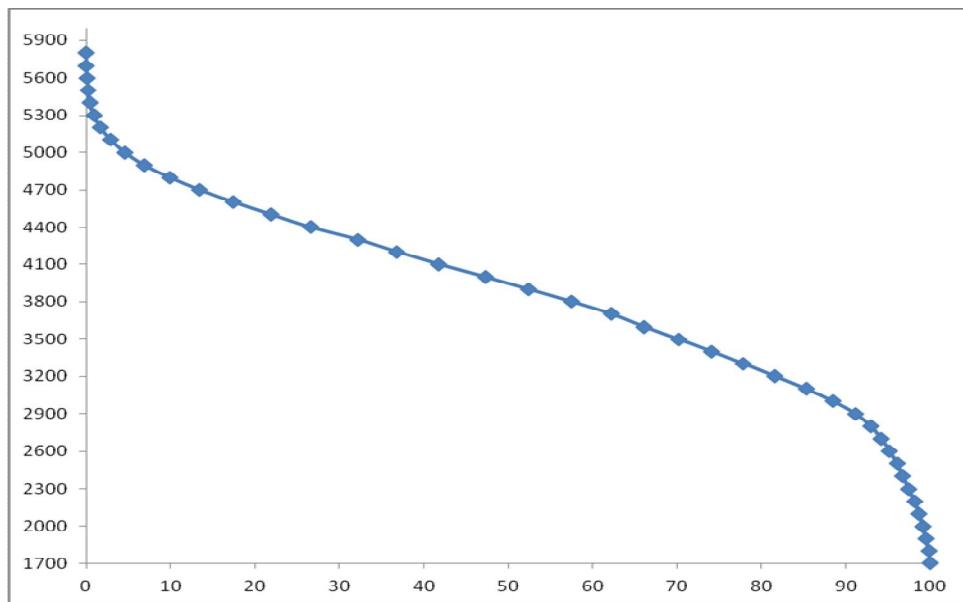
All figures in MW

Hrs.	Demand met	Load Shedding	Un-Restricted Demand
0:00	1954	0	1954
1:00	1701	0	1701
2:00	1590	0	1590
3:00	1537	0	1537
4:00	1536	0	1536
5:00	1657	23	1680
6:00	2329	23	2352
7:00	2741	299	3040
8:00	3548	71	3619
9:00	3712	74	3786
9:59:33	4125	51	4176
10:00	4077	82	4159
11:00	4047	58	4105
12:00	3886	11	3897
13:00	3504	0	3504
14:00	3203	5	3208
15:00	3102	0	3102
16:00	3058	0	3058
17:00	3102	0	3102
18:00	3356	0	3356
19:00	3574	0	3574
20:00	3386	0	3386
21:00	3091	0	3091
22:00	2874	0	2874
23:00	2458	0	2458
Energy in Mus	68.595	0.588	<b>69.183</b>



### 9.18 LOAD DURATION CURVE FOR 2015-16 (Based on SCADA)

LOAD REMAINED ABOVE IN MW	(%) OF TIME	LOAD REMAINED ABOVE IN MW	(%) OF TIME
5800	0.01	3700	62.22
5700	0.03	3600	66.08
5600	0.10	3500	70.17
5500	0.22	3400	74.11
5400	0.43	3300	77.85
5300	0.90	3200	81.58
5200	1.70	3100	85.29
5100	2.90	3000	88.49
5000	4.53	2900	91.11
4900	6.83	2800	92.92
4800	9.87	2700	94.20
4700	13.38	2600	95.20
4600	17.40	2500	96.06
4500	21.93	2400	96.74
4400	26.58	2300	97.46
4300	32.17	2200	98.11
4200	36.83	2100	98.71
4100	41.81	2000	99.10
4000	47.29	1900	99.50
3900	52.46	1800	99.82
3800	57.52	1700	100.00



**10 FREQUENCY SPECTRUM OF NORTHERN REGION [(NORTH-EAST-WEST)(NEW)] FOR 2015-16**

Month	Frequency in Hz.			Frequency Variation index (FVI)	Percentage of Time						
	Average Frequency (Hz.)	Maximum Instant Frequency (Hz.)	Minimum Instant Frequency (Hz.)		> 50.20 HZ (%)	> 50.10 HZ (%)	50.05 - 50.10 HZ (%)	49.90 - 50.05 HZ (%)	< 49.9 HZ (%)	< 49.8 HZ (%)	< 49.7 HZ (%)
Apr 15	49.99	50.55	49.50	0.09	1.34	7.98	15.74	61.35	14.93	2.97	0.48
May 15	49.98	50.55	49.55	0.08	0.92	5.59	13.01	65.55	15.86	2.72	0.33
Jun 15	50.00	50.42	49.56	0.07	1.45	7.97	16.98	65.81	9.24	1.08	0.13
July 15	49.99	50.33	49.58	0.05	0.42	4.90	14.13	70.62	10.36	1.44	0.12
Aug. 15	49.98	50.27	49.55	0.06	0.11	3.13	11.05	70.56	15.26	1.83	0.22
Sept 15	49.94	50.33	49.52	0.11	0.17	2.46	7.29	59.68	30.56	5.92	0.70
Oct. 15	49.98	50.33	49.62	0.06	0.21	3.91	12.27	69.76	14.05	1.43	0.05
Nov. 15	49.99	49.64	50.28	0.06	0.27	5.70	15.63	67.20	11.48	1.28	0.06
Dec. 15	49.98	50.31	49.59	0.07	0.38	5.08	12.17	66.37	16.38	1.99	0.10
Jan. 16	50.00	50.39	49.70	0.05	0.53	6.42	16.06	68.33	9.19	0.47	0.00
Feb. 16	50.01	50.39	49.71	0.04	0.34	6.17	17.56	70.65	5.62	0.26	0.00
Mar. 16	50.00	50.35	49.68	0.05	0.23	5.09	16.12	70.09	8.69	0.59	0.01
2015-16	49.99	50.55	49.50	0.07	0.53	5.36	13.98	67.19	13.48	1.83	0.18

**11 DETAILS OF UNDER FREQUECY RELAY TRIPPINGS OCCURRED IN 2015-16**

MONTH	STAGE-1	STAGE-2	df/dt	TOTAL
APRIL 2015	0	0	0	0
MAY 2015	0	0	0	0
JUNE 2015	0	0	2	2
JULY 2015	0	0	0	0
AUGUST 2015	0	0	0	0
SEPTEMBER 2015	0	0	0	0
OCTOBER 2015	0	0	0	0
NOVEMBER 2015	0	0	0	0
DECEMBER 2015	0	0	0	0
JANUARY 2016	0	0	0	0
FEBRUARY 2016	0	0	1	1
MARCH 2016	0	0	5	5
<b>TOTAL 2015-16</b>	<b>0</b>	<b>0</b>	<b>8</b>	<b>8</b>

## 12 INTRASTATE TRANSMISSION LOSSES

### 12.1 WEEK WISE INTRASTATE TRANSMISSION LOSSES FOR 2015-16 (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					
			RPH	GT	PRAGATI	BTPS	Bawana	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)=sum(4 to 8)
1	0.78	236.335	3.302	9.399	18.396	18.407	33.890	83.394
2	0.81	356.487	-0.170	13.177	25.691	25.208	48.471	112.376
3	0.79	385.468	-0.169	13.057	25.491	28.531	47.055	113.965
4	0.41	427.098	7.046	20.512	46.265	44.506	46.909	165.239
5	0.45	452.221	8.089	12.609	46.729	45.306	45.329	158.062
6	0.48	505.329	10.300	19.152	44.693	42.894	48.928	165.968
7	0.64	485.591	7.729	19.573	40.742	59.385	46.676	174.104
8	0.84	556.717	2.921	14.560	44.144	52.861	46.974	161.460
9	0.90	596.137	-0.212	11.412	44.124	57.786	48.781	161.891
10	0.83	537.246	-0.235	5.760	39.418	36.643	45.724	127.310
11	0.88	603.754	-0.211	12.239	40.551	59.361	39.230	151.170
12	0.86	590.976	-0.129	11.407	38.807	60.190	33.071	143.346
13	0.85	553.399	-0.118	9.964	39.621	59.746	43.199	152.412
14	0.86	602.450	-0.133	11.542	44.310	57.594	45.164	158.476
15	0.84	507.247	-0.128	6.529	38.815	65.194	36.104	146.515
16	0.80	547.353	-0.180	11.296	34.892	62.447	30.738	139.193
17	0.86	607.311	-0.167	11.867	24.441	60.098	18.787	115.025
18	0.81	571.809	-0.163	11.105	21.960	53.500	-0.933	85.469
19	0.75	592.221	-0.166	8.618	38.904	51.076	-0.880	97.551
20	0.73	580.615	-0.151	5.758	26.701	52.498	-0.868	83.938
21	0.74	611.831	-0.150	5.477	22.408	52.016	-0.884	78.868
22	0.83	641.804	-0.160	5.482	34.379	51.971	-0.657	91.015
23	0.86	602.523	-0.175	5.673	44.642	52.690	16.042	118.871
24	0.87	594.334	-0.167	5.751	44.471	43.009	43.838	136.903
25	0.93	616.499	-0.192	5.806	43.690	50.012	38.664	137.979
26	0.90	537.692	-0.149	5.975	29.379	39.560	41.943	116.708
27	0.92	508.396	-0.137	7.083	24.741	35.711	29.204	96.601

Week No.	Avg Trans. Loss in %age	Actual drawal from the grid in Mus	Actual Ex-bus generation with in Delhi in Mus					
			RPH	GT	PRAGATI	BTPS	Bawana	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)=sum(4 to 8)
28	0.94	532.010	-0.158	7.423	24.887	35.241	30.626	98.018
29	0.84	510.454	-0.159	6.358	23.094	27.423	42.321	99.037
30	0.84	433.974	-0.096	6.395	21.857	27.504	42.031	97.690
31	0.82	366.621	-0.099	6.416	25.609	27.128	27.970	87.024
32	0.78	354.392	-0.123	6.412	25.768	26.968	31.877	90.902
33	0.79	304.960	-0.127	7.799	25.799	26.191	38.455	98.117
34	0.76	306.588	-0.118	6.651	25.826	27.141	41.315	100.814
35	0.93	303.048	-0.102	6.346	26.123	27.205	41.303	100.875
36	1.04	307.674	-0.126	6.014	25.566	25.556	42.902	99.912
37	1.06	314.039	-0.115	5.914	24.613	24.704	41.477	96.594
38	0.91	332.728	-0.133	4.987	23.602	27.568	37.777	93.802
39	0.97	342.839	-0.135	6.058	23.577	27.665	42.275	99.439
40	0.98	332.290	-0.116	5.888	23.567	27.443	42.279	99.061
41	0.94	326.942	-0.117	7.779	26.926	27.499	36.727	98.814
42	0.96	330.528	-0.114	7.289	28.372	27.863	42.204	105.612
43	1.15	366.348	-0.090	6.497	24.150	25.397	42.315	98.269
44	1.13	346.994	-0.087	6.199	25.083	26.978	34.386	92.559
45	0.96	334.051	-0.102	6.505	23.574	27.658	42.113	99.748
46	1.00	326.186	-0.089	6.437	23.662	26.767	42.184	98.962
47	1.04	314.636	-0.079	6.424	23.881	26.875	42.049	99.150
48	0.94	306.025	-0.078	6.359	23.872	27.022	41.952	99.127
49	1.03	345.804	-0.110	6.254	10.082	26.797	33.072	76.095
50	0.99	352.165	-0.098	6.240	-0.062	26.433	38.775	71.289
51	1.02	359.670	-0.114	6.103	-0.087	26.515	42.460	74.878
52	1.02	359.363	-0.092	6.354	-0.116	26.386	17.552	50.084
53	0.91	251.947	-0.049	3.503	0.170	14.990	-0.442	18.171
<b>Total 2015-16</b>	0.85	23471.118	33.098	445.386	1497.798	2013.118	1828.453	5817.853

Week	Total Consumption of Delhi at DTL periphery in Mus	Actual drawal of distribution licensees and deemed licensees in MUs							Transmission losses in	
		TPDDL	BRPL	BYPL	NDMC	MES	IP	Total	in Mus	in %
(1)	(10)=(3)+(9)	(11)	(12)	(13)	(14)	(15)	(16)	(17)=(11)+(12)+(13)+(14)+(15)+(16)	(18)=(10)-(17)	(19)=(18)*100/10
1	319.729	98.876	126.574	74.870	14.516	2.371	0.017	317.223	2.506	0.78
2	468.863	144.093	185.842	108.349	23.147	3.623	0.015	465.069	3.794	0.81
3	499.432	151.110	199.217	116.895	24.534	3.736	0.013	495.503	3.930	0.79
4	592.337	172.887	244.387	138.669	29.480	4.455	0.020	589.898	2.439	0.41
5	610.283	175.929	254.439	141.928	30.518	4.677	0.019	607.509	2.774	0.45
6	671.297	191.312	279.952	158.158	33.700	4.957	0.020	668.099	3.198	0.48
7	659.695	185.908	273.215	156.054	35.279	4.981	0.020	655.458	4.237	0.64
8	718.177	201.403	298.824	169.178	37.470	5.248	0.016	712.138	6.039	0.84
9	758.028	210.378	317.474	178.081	39.820	5.422	0.016	751.190	6.838	0.90
10	664.556	185.024	273.283	159.651	36.147	4.896	0.014	659.015	5.541	0.83
11	754.924	209.247	313.812	179.148	40.502	5.531	0.013	748.252	6.672	0.88
12	734.323	205.530	303.719	174.974	38.218	5.531	0.012	727.984	6.338	0.86
13	705.811	199.934	291.990	165.776	36.762	5.335	0.012	699.808	6.003	0.85
14	760.925	214.471	315.622	179.402	39.080	5.778	0.011	754.364	6.562	0.86
15	653.763	187.632	265.904	154.970	34.781	4.959	0.008	648.254	5.509	0.84
16	686.545	196.292	281.562	162.160	35.764	5.277	0.008	681.063	5.483	0.80
17	722.336	206.415	297.500	169.016	37.670	5.479	0.011	716.092	6.244	0.86
18	657.278	190.242	266.897	155.116	34.783	4.878	0.010	651.925	5.353	0.81
19	689.771	197.573	284.600	160.697	36.411	5.323	0.005	684.607	5.164	0.75
20	664.553	187.654	276.559	155.025	35.255	5.184	0.000	659.677	4.876	0.73
21	690.699	198.901	282.768	162.144	36.676	5.060	0.005	685.553	5.146	0.74
22	732.818	209.276	303.438	170.599	38.162	5.238	0.009	726.724	6.095	0.83
23	721.394	204.868	298.293	169.679	37.046	5.307	0.008	715.202	6.193	0.86
24	731.237	208.845	301.435	171.790	37.503	5.268	0.009	724.850	6.387	0.87
25	754.478	212.676	312.216	178.011	38.937	5.578	0.010	747.428	7.050	0.93
26	654.400	191.237	266.963	152.276	33.227	4.785	0.009	648.497	5.903	0.90
27	604.997	177.106	247.637	142.341	28.309	4.020	0.009	599.422	5.576	0.92

Week	Total Consumption of Delhi at DTL periphery in MUs	Actual drawal of distribution licensees and deemed licensees in MUs							Transmission losses in	
		TPDDL	BRPL	BYPL	NDMC	MES	IP	Total	in MUs	in %
(1)	(10)=(3)+(9)	(11)	(12)	(13)	(14)	(15)	(16)	(17)=(11)+(12)+(13)+(14)+(15)+(16)	(18)=(10)-(17)	(19)=(18)*100/10
28	630.028	184.982	253.614	149.134	32.037	4.301	0.010	624.079	5.949	0.94
29	609.490	180.709	245.331	142.759	31.223	4.361	0.010	604.391	5.099	0.84
30	531.664	157.840	213.301	125.658	26.736	3.632	0.008	527.175	4.490	0.84
31	453.645	140.019	177.920	104.725	23.863	3.379	0.008	449.914	3.732	0.82
32	445.294	139.735	174.685	100.332	23.697	3.359	0.007	441.816	3.478	0.78
33	403.077	117.299	166.211	92.426	20.950	2.988	0.006	399.880	3.196	0.79
34	407.403	126.398	160.202	91.898	22.681	3.106	0.006	404.291	3.111	0.76
35	403.923	126.562	159.013	89.781	21.652	3.134	0.006	400.148	3.774	0.93
36	407.586	127.268	159.756	90.475	22.210	3.619	0.006	403.334	4.252	1.04
37	410.633	128.324	161.673	90.253	22.375	3.632	0.006	406.263	4.370	1.06
38	426.530	131.274	169.926	92.329	24.371	4.737	0.006	422.643	3.887	0.91
39	442.279	135.254	177.805	95.635	24.302	4.999	0.007	438.001	4.278	0.97
40	431.351	131.992	172.256	93.872	24.164	4.843	0.008	427.134	4.216	0.98
41	425.756	131.551	169.574	92.656	23.314	4.667	0.008	421.771	3.985	0.94
42	436.141	135.046	174.126	94.306	23.464	5.011	0.007	431.960	4.181	0.96
43	464.617	139.478	188.049	100.209	25.789	5.761	0.008	459.295	5.322	1.15
44	439.552	131.422	177.373	97.328	23.412	5.041	0.005	434.581	4.971	1.13
45	433.799	134.877	172.891	95.221	22.034	4.630	0.002	429.655	4.144	0.96
46	425.148	133.782	166.723	93.517	22.595	4.285	0.003	420.905	4.243	1.00
47	413.786	129.932	162.103	92.105	21.473	3.854	0.001	409.468	4.317	1.04
48	405.152	128.364	157.121	91.402	21.032	3.424	-0.002	401.340	3.812	0.94
49	421.900	132.995	164.276	94.775	22.186	3.313	0.001	417.545	4.355	1.03
50	423.454	132.918	165.021	95.390	22.391	3.527	0.000	419.246	4.208	0.99
51	434.548	137.018	168.576	97.453	23.455	3.617	0.000	430.119	4.429	1.02
52	409.447	122.939	164.651	92.648	21.623	3.415	0.000	405.276	4.171	1.02
53	270.118	83.273	106.321	60.479	15.519	2.056	0.000	267.648	2.470	0.91
<b>Total</b>	<b>29288.970</b>	<b>8616.068</b>	<b>11892.617</b>	<b>6761.719</b>	<b>1532.243</b>	<b>235.588</b>	<b>0.442</b>	<b>29038.680</b>	<b>250.289</b>	<b>0.85</b>
<b>2015-16</b>										

## 12.2 MONTH WISE TRANSMISSION LOSSES FOR 2015-16

<b>Month</b>	<b>TPDDL</b>	<b>BRPL</b>	<b>BYPL</b>	<b>NDMC</b>	<b>MES</b>	<b>IP</b>	<b>Total supply to disoms</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8=sum(2 to 7)</b>
Apr-15	669.1341	902.9130	519.8345	110.3897	16.9644	0.0700	2219.3057
May-15	862.7612	1277.0109	722.3457	158.0730	22.5053	0.0798	3042.7759
Jun-15	860.1667	1271.0728	728.5249	163.2162	22.9605	0.0540	3045.9951
Jul-15	883.8836	1266.8944	728.4804	162.2805	23.4308	0.0428	3065.0126
Aug-15	874.8359	1265.1924	716.8446	160.6885	22.9042	0.0228	3040.4885
Sep-15	867.9397	1245.2137	709.5195	154.7330	22.1830	0.0393	2999.6282
Oct-15	741.3122	1003.2179	587.8153	125.3439	17.1779	0.0404	2474.9076
Nov-15	546.5450	705.8801	401.0393	95.1524	13.5460	0.0279	1762.1907
Dec-15	581.3875	746.5731	409.7996	104.4967	19.2854	0.0291	1861.5714
Jan-16	592.0031	780.9669	424.5264	105.5621	22.5082	0.0324	1925.5990
Feb-16	545.7647	681.9542	385.2180	90.3560	16.6863	0.0037	1719.9830
Mar-16	590.3339	745.7275	427.7703	101.9508	15.4363	-0.0001	1881.2187
<b>Total</b>	<b>8616.0676</b>	<b>11892.6170</b>	<b>6761.7185</b>	<b>1532.2426</b>	<b>235.5884</b>	<b>0.4422</b>	<b>29038.6764</b>

<b>Month</b>	<b>GT</b>	<b>RPH</b>	<b>PPCL</b>	<b>BTPS</b>	<b>Drawal from the Grid</b>	<b>Bawana</b>
<b>1</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>
Apr-15	63.3068	14.49521	142.6684	144.7381	1664.139	204.2092
May-15	70.14457	24.34001	193.6073	230.1465	2337.244	208.8029
Jun-15	42.84569	-0.72673	171.14	231.3151	2453.61	174.1931
Jul-15	45.84723	-0.69506	145.3389	272.0188	2511.333	117.1487
Aug-15	29.12317	-0.69708	135.113	226.7181	2677.534	-3.63507
Sep-15	24.98958	-0.71997	166.5655	193.3249	2484.1	158.4451
Oct-15	30.20827	-0.5724	105.813	133.3573	2079.726	148.2744
Nov-15	28.90436	-0.49988	110.7997	115.2943	1357.034	165.169
Dec-15	25.54933	-0.55796	107.1456	117.2808	1448.407	182.3708
Jan-16	30.28739	-0.45827	114.6307	119.481	1508.143	173.7604
Feb-16	26.63239	-0.36306	98.40787	112.1749	1325.963	174.2585
Mar-16	27.54718	-0.44717	6.568374	117.268	1623.885	125.4558
<b>Total</b>	<b>445.3859</b>	<b>33.09764</b>	<b>1497.798</b>	<b>2013.118</b>	<b>23471.12</b>	<b>1828.453</b>

<b>Month</b>	<b>Total Injection For supply to Discoms</b>	<b>Losses in MUs</b>	<b>Losses in %</b>	<b>Losses in % during previous year</b>
1	14=Sum(8to13)	15=14-7	16=15*100/14	17
Apr-15	2233.556	14.25062	0.64	0.70
May-15	3064.285	21.50929	0.70	0.56
Jun-15	3072.378	26.38256	0.86	0.56
Jul-15	3090.992	25.97896	0.84	0.69
Aug-15	3064.156	23.66752	0.77	0.71
Sep-15	3026.706	27.07731	0.89	0.63
Oct-15	2496.807	21.89923	0.88	0.64
Nov-15	1776.702	14.51083	0.82	0.87
Dec-15	1880.195	18.62387	0.99	0.97
Jan-16	1945.844	20.2448	1.04	0.75
Feb-16	1737.073	17.09051	0.98	0.77
Mar-16	1900.277	19.05847	1.00	0.74
<b>Total</b>	<b>29288.97</b>	<b>250.294</b>	<b>0.85</b>	<b>0.70</b>

**13 ALLOCATION OF POWER TO DISCOMS FOR 2015-16**  
**13.1 ALLOCATION FROM CENTRAL SECTOR**

i) Allocation to Delhi w.e.f.01.04.2015 to 30.06.2015 from Inter State Generating Stns.

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)
<b>NTPC STATIONS</b>							
Singrauli STPS	2000	300	150	130	0	0	130
Rihand-I	1000	150	100	87	0	0	87
Rihand Stage -II	1000	150	126	109	0	0	109
Rihand Stage -III	1000	150	132	115	0	0	115
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	576	500	0	0	500
Dadri NCTPS (Th) Stage-II	980	147	474	412	0	0	412
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
<b>TOTAL</b>	<b>9782</b>	<b>1302</b>	<b>1865</b>	<b>1633</b>	<b>0</b>	<b>0</b>	<b>1633</b>
<b>NHPC</b>							
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
Chamera-III HEP	231	35	29	28	0	0	28
URI-I HEP	480	0	53	50	0	0	50
URI-II HEP	240	0	32	31	0	0	31
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
Parbati-III HEP	520	66	66	63	0	0	63
<b>TOTAL</b>	<b>4065</b>	<b>272</b>	<b>479</b>	<b>455</b>	<b>0</b>	<b>0</b>	<b>455</b>
<b>NPC</b>							
Narora APS	440	64	47	41	0	0	41
RAPP (C )	440	64	56	49	0	0	49
<b>TOTAL</b>	<b>880</b>	<b>128</b>	<b>103</b>	<b>89</b>	<b>0</b>	<b>0</b>	<b>89</b>
<b>SVJNLL</b>							
Nathpa Jhakri HEP	1500	149	142	135	0	0	135
<b>THDC</b>							
Tehri Hydro	1000	99	103	98	0	0	98
Koteshwar HEP	400	40	39	37	0	0	37
<b>TOTAL</b>	<b>1400</b>	<b>139</b>	<b>142</b>	<b>135</b>	<b>0</b>	<b>0</b>	<b>135</b>
<b>Total</b>	<b>17627</b>	<b>1990</b>	<b>2731</b>	<b>2448</b>	<b>0</b>	<b>0</b>	<b>2448</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)
<b>Allocation from ER &amp; Tala HEP</b>							
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
Kahalgaon-II	1500	0	157	131	0	0	131
<b>Total ER</b>	<b>5960</b>	<b>153</b>	<b>261</b>	<b>217</b>	<b>0</b>	<b>0</b>	<b>217</b>
<b>Joint Venture</b>							
Jhajjar TPS	1500	114	0	0	0	0	0
Ultra Mega Projects							
Sasan	3960	0	446	383	0	0	383
<b>Grand Total</b>	<b>29047</b>	<b>2257</b>	<b>3437</b>	<b>3048</b>	<b>0</b>	<b>0</b>	<b>3048</b>

ii) **Allocation to Delhi w.e.f. 01.07.2015 to 17.07.2015 from Inter State Generating Stns.**

All figures in MW							
Name of the Stn	Installed capacity	Total Un-allocated	Basic Allocation	Basic Allocation at periphery	Allocation out of Unallocat ed 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)
<b>NTPC STATIONS</b>							
Singrauli STPS	2000	300	150	130	0	0	130
Rihand-I	1000	150	100	87	0	0	87
Rihand Stage -II	1000	150	126	109	0	0	109
Rihand Stage -III	1000	150	132	115	0	0	115
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	576	500	0	0	500
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
<b>TOTAL</b>	<b>9782</b>	<b>1302</b>	<b>2126</b>	<b>1860</b>	<b>0</b>	<b>0</b>	<b>1860</b>
<b>NHPC</b>							
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
Chamera-III HEP	231	35	29	28	0	0	28
URI-I HEP	480	0	53	50	0	0	50
URI-II HEP	240	0	32	31	0	0	31

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)
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
Parbati-III HEP	520	66	66	63	0	0	63
<b>TOTAL</b>	<b>4065</b>	<b>272</b>	<b>479</b>	<b>455</b>	<b>0</b>	<b>0</b>	<b>455</b>
<b>NPC</b>							
Narora APS	440	64	47	41	0	0	41
RAPP (C )	440	64	56	49	0	0	49
<b>TOTAL</b>	<b>880</b>	<b>128</b>	<b>103</b>	<b>89</b>	<b>0</b>	<b>0</b>	<b>89</b>
<b>SVJNL</b>							
Nathpa Jhakri HEP	1500	149	142	135	0	0	135
<b>THDC</b>							
Tehri Hydro	1000	99	103	98	0	0	98
Koteshwar HEP	400	40	39	37	0	0	37
<b>TOTAL</b>	<b>1400</b>	<b>139</b>	<b>142</b>	<b>135</b>	<b>0</b>	<b>0</b>	<b>135</b>
<b>Total</b>	<b>17627</b>	<b>1990</b>	<b>2992</b>	<b>2674</b>	<b>0</b>	<b>0</b>	<b>2674</b>
<b>Allocation from ER &amp; Tala HEP</b>							
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
Kahalgaon-II	1500	0	157	131	0	0	131
<b>Total ER</b>	<b>5960</b>	<b>153</b>	<b>261</b>	<b>217</b>	<b>0</b>	<b>0</b>	<b>217</b>
<b>Joint Venture</b>							
Jhajjar TPS	1500	114	304	273	0	0	273
Ultra Mega Projects							
Sasan	3960	0	446	383	0	0	383
<b>Grand Total</b>	<b>29047</b>	<b>2257</b>	<b>4002</b>	<b>3548</b>	<b>0</b>	<b>0</b>	<b>3548</b>

iii) Allocation to Delhi w.e.f. 18.07.2015 to 31.08.2015 from Inter State Generating Stns.

Name of the Stn	Installed capacity	Total Un-allocat ed	Basic Allocation	Basic Allocation at periphery	Allocation out of Unallocat ed Quota	Allocation out of Un-allocation Quota at Delhi periphery	All figures in MW
1	2	3	4	5	6	7	(8)=(5)+(7)
<b>NTPC STATIONS</b>							
Singrauli STPS	2000	300	150	130	0	0	130
Rihand-I	1000	150	100	87	0	0	87
Rihand Stage -II	1000	150	126	109	0	0	109
Rihand Stage -III	1000	150	132	115	0	0	115
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

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)
Dadri NCTPS (Th)	840	0	576	500	0	0	500
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
Koldam HEP	800	120	56	53	0	0	53
<b>TOTAL</b>	<b>10582</b>	<b>1422</b>	<b>2182</b>	<b>1913</b>	<b>0</b>	<b>0</b>	<b>1913</b>
<b>NHPC</b>							
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
Chamera-III HEP	231	35	29	28	0	0	28
URI-I HEP	480	0	53	50	0	0	50
URI-II HEP	240	0	32	31	0	0	31
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
Parbati-III HEP	520	66	66	63	0	0	63
<b>TOTAL</b>	<b>4065</b>	<b>272</b>	<b>479</b>	<b>455</b>	<b>0</b>	<b>0</b>	<b>455</b>
<b>NPC</b>							
Narora APS	440	64	47	41	0	0	41
RAPP (C )	440	64	56	49	0	0	49
<b>TOTAL</b>	<b>880</b>	<b>128</b>	<b>103</b>	<b>89</b>	<b>0</b>	<b>0</b>	<b>89</b>
<b>SJVNL</b>							
Nathpa Jhakri HEP	1500	149	142	135	0	0	135
<b>THDC</b>							
Tehri Hydro	1000	99	103	98	0	0	98
Koteshwar HEP	400	40	39	37	0	0	37
<b>TOTAL</b>	<b>1400</b>	<b>139</b>	<b>142</b>	<b>135</b>	<b>0</b>	<b>0</b>	<b>135</b>
<b>Total</b>	<b>18427</b>	<b>2110</b>	<b>3048</b>	<b>2727</b>	<b>0</b>	<b>0</b>	<b>2727</b>
<b>Allocation from ER &amp; Tala HEP</b>							
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
Kahalgaon-II	1500	0	157	131	0	0	131
<b>Total ER</b>	<b>5960</b>	<b>153</b>	<b>261</b>	<b>217</b>	<b>0</b>	<b>0</b>	<b>217</b>
<b>Joint Venture</b>							
Jhajjar TPS	1500	114	304	273	0	0	273
Ultra Mega Projects							
Sasan	3960	0	446	383	0	0	383
<b>Grand Total</b>	<b>29847</b>	<b>2377</b>	<b>4058</b>	<b>3601</b>	<b>0</b>	<b>0</b>	<b>3601</b>

iv) Allocation to Delhi w.e.f. 01.09.2015 to 30.09.2015 from Inter State Generating Stns.

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)
<b>NTPC STATIONS</b>							
Singrauli STPS	2000	300	150	130	0	0	130
Rihand-I	1000	150	100	87	0	0	87
Rihand Stage -II	1000	150	126	109	0	0	109
Rihand Stage -III	1000	150	132	115	0	0	115
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
Koldam HEP	800	120	56	53	0	0	53
<b>TOTAL</b>	<b>10582</b>	<b>1422</b>	<b>2362</b>	<b>2069</b>	<b>0</b>	<b>0</b>	<b>2069</b>
<b>NHPC</b>							
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
Chamera-III HEP	231	35	29	28	0	0	28
URI-I HEP	480	0	53	50	0	0	50
URI-II HEP	240	0	32	31	0	0	31
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
Parbati-III HEP	520	66	66	63	0	0	63
<b>TOTAL</b>	<b>4065</b>	<b>272</b>	<b>479</b>	<b>455</b>	<b>0</b>	<b>0</b>	<b>455</b>
<b>NPC</b>							
Narora APS	440	64	47	41	0	0	41
RAPP (C )	440	64	56	49	0	0	49
<b>TOTAL</b>	<b>880</b>	<b>128</b>	<b>103</b>	<b>89</b>	<b>0</b>	<b>0</b>	<b>89</b>
<b>SJVNL</b>							
Nathpa Jhakri HEP	1500	149	142	135	0	0	135
<b>THDC</b>							
Tehri Hydro	1000	99	103	98	0	0	98
Koteshwar HEP	400	40	39	37	0	0	37
<b>TOTAL</b>	<b>1400</b>	<b>139</b>	<b>142</b>	<b>135</b>	<b>0</b>	<b>0</b>	<b>135</b>
<b>Total</b>	<b>18427</b>	<b>2110</b>	<b>3228</b>	<b>2884</b>	<b>0</b>	<b>0</b>	<b>2884</b>
<b>Allocation from ER &amp; Tala HEP</b>							
Farakka	1600	0	22	19	0	0	19
Kahalgaon	840	0	51	43	0	0	43
Talchar	1000	0	0	0	0	0	0

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)
Tala HEP	1020	153	30	25	0	0	25
Kahalgaon-II	1500	0	157	131	0	0	131
<b>Total ER</b>	<b>5960</b>	<b>153</b>	<b>261</b>	<b>217</b>	<b>0</b>	<b>0</b>	<b>217</b>
<b>Joint Venture</b>							
Jhajjar TPS	1500	114	304	273	0	0	273
Ultra Mega Projects							
Sasan	3960	0	446	383	0	0	383
<b>Grand Total</b>	<b>29847</b>	<b>2377</b>	<b>4238</b>	<b>3757</b>	<b>0</b>	<b>0</b>	<b>3757</b>

v) Allocation to Delhi w.e.f. 01.10.2015 to 15.10.2015 from Central Sector Generating Stns.

All figures in MW

Name of the Stn	Installed capacity	Total Un-allocated	Basic Allocation	Basic Allocation at periphery	Allocation out of Unallocat ed 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)
<b>NTPC STATIONS</b>							
Singrauli STPS	2000	300	150	130	0	0	130
Rihand-I	1000	150	100	87	0	0	87
Rihand Stage -II	1000	150	126	109	0	0	109
Rihand Stage -III	1000	150	132	115	0	0	115
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
Koldam HEP	800	120	56	53	0	0	53
<b>TOTAL</b>	<b>10582</b>	<b>1422</b>	<b>2362</b>	<b>2069</b>	<b>0</b>	<b>0</b>	<b>2069</b>
<b>NHPC</b>							
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
Chamera-III HEP	231	35	29	28	0	0	28
URI-I HEP	480	0	53	50	0	0	50
URI-II HEP	240	0	32	31	0	0	31
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
Parbati-III HEP	520	66	66	63	0	0	63
<b>TOTAL</b>	<b>4065</b>	<b>272</b>	<b>479</b>	<b>455</b>	<b>0</b>	<b>0</b>	<b>455</b>

<u>Name of the Stn</u>	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
<b>1</b>	2	3	4	5	6	7	(8)=(5)+(7)
<b>NPC</b>							
Narora APS	440	64	47	41	0	0	41
RAPP (C )	440	64	56	49	0	0	49
<b>TOTAL</b>	<b>880</b>	<b>128</b>	<b>103</b>	<b>89</b>	<b>0</b>	<b>0</b>	<b>89</b>
<b>SJVNL</b>							
Nathpa Jhakri HEP	1500	149	142	135	0	0	135
<b>THDC</b>							
Tehri Hydro	1000	99	103	98	0	0	98
Koteshwar HEP	400	40	39	37	0	0	37
<b>TOTAL</b>	<b>1400</b>	<b>139</b>	<b>142</b>	<b>135</b>	<b>0</b>	<b>0</b>	<b>135</b>
<b>Total</b>	<b>18427</b>	<b>2110</b>	<b>3228</b>	<b>2884</b>	<b>0</b>	<b>0</b>	<b>2884</b>
<b>Allocation from ER &amp; Tala HEP</b>							
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
Kahalgaon-II	1500	0	157	131	0	0	131
<b>Total ER</b>	<b>5960</b>	<b>153</b>	<b>261</b>	<b>217</b>	<b>0</b>	<b>0</b>	<b>217</b>
<b>Joint Venture</b>							
Jhajjar TPS	1500	114	0	0	0	0	0
Ultra Mega Projects							
Sasan	3960	0	446	383	0	0	383
<b>Grand Total</b>	<b>29847</b>	<b>2377</b>	<b>3934</b>	<b>3484</b>	<b>0</b>	<b>0</b>	<b>3484</b>

vi) Allocation to Delhi w.e.f. 16.10.2015 to 29.02.2016 from Inter State Generating Stns.

All figures in MW

<u>Name of the Stn</u>	Installed capacity	Total Un-allocated	Basic Allocation	Basic Allocation at periphery	Allocation out of Unallocat ed Quota	Allocation out of Un-allocation Quota at Delhi periphery	Total allocation at Delhi periphery
<b>1</b>	2	3	4	5	6	7	(8)=(5)+(7)
<b>NTPC STATIONS</b>							
Singrauli STPS	2000	300	150	130	0	0	130
Rihand-I	1000	150	100	87	0	0	87
Rihand Stage -II	1000	150	126	109	0	0	109
Rihand Stage -III	1000	150	132	115	0	0	115
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
Koldam HEP	800	120	56	53	0	0	53
<b>TOTAL</b>	<b>10582</b>	<b>1422</b>	<b>2362</b>	<b>2069</b>	<b>0</b>	<b>0</b>	<b>2069</b>

<u>Name of the Stn</u>	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
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>(8)=(5)+(7)</b>
<b>NHPC</b>							
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
Chamera-III HEP	231	35	29	28	0	0	28
URI-I HEP	480	0	53	50	0	0	50
URI-II HEP	240	0	32	31	0	0	31
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
Parbati-III HEP	520	66	66	63	0	0	63
<b>TOTAL</b>	<b>4065</b>	<b>272</b>	<b>479</b>	<b>455</b>	<b>0</b>	<b>0</b>	<b>455</b>
<b>NPC</b>							
Narora APS	440	64	47	41	0	0	41
RAPP (C )	440	64	56	49	0	0	49
<b>TOTAL</b>	<b>880</b>	<b>128</b>	<b>103</b>	<b>89</b>	<b>0</b>	<b>0</b>	<b>89</b>
<b>SJVNL</b>							
Nathpa Jhakri HEP	1500	149	142	135	0	0	135
<b>THDC</b>							
Tehri Hydro	1000	99	63	60	0	0	60
Koteshwar HEP	400	40	39	37	0	0	37
<b>TOTAL</b>	<b>1400</b>	<b>139</b>	<b>102</b>	<b>97</b>	<b>0</b>	<b>0</b>	<b>97</b>
<b>Total</b>	<b>18427</b>	<b>2110</b>	<b>3188</b>	<b>2846</b>	<b>0</b>	<b>0</b>	<b>2846</b>
<b>Allocation from ER and Tala HEP</b>							
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
Kahalgaon-II	1500	0	157	131	0	0	131
<b>Total ER</b>	<b>5960</b>	<b>153</b>	<b>261</b>	<b>217</b>	<b>0</b>	<b>0</b>	<b>217</b>
<b>Joint Venture</b>							
Jhajjar TPS	1500	114	0	0	0	0	0
Ultra Mega Projects							
Sasan	3960	0	446	383	0	0	383
<b>Grand Total</b>	<b>29847</b>	<b>2377</b>	<b>3894</b>	<b>3446</b>	<b>0</b>	<b>0</b>	<b>3446</b>

vii) Allocation to Delhi w.e.f. 01.03.2016 to 31.03.2016 from Inter State Generating Stns.

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)
<b>NTPC STATIONS</b>							
Singrauli STPS	2000	300	150	130	0	0	130
Rihand-I	1000	150	100	87	0	0	87
Rihand Stage -II	1000	150	126	109	0	0	109
Rihand Stage -III	1000	150	132	115	0	0	115
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
Koldam HEP	800	120	56	53	0	0	53
<b>TOTAL</b>	<b>10582</b>	<b>1422</b>	<b>2362</b>	<b>2069</b>	<b>0</b>	<b>0</b>	<b>2069</b>
<b>NHPC</b>							
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
Chamera-III HEP	231	35	29	28	0	0	28
URI-I HEP	480	0	53	50	0	0	50
URI-II HEP	240	0	32	31	0	0	31
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
Parbati-III HEP	520	66	66	63	0	0	63
<b>TOTAL</b>	<b>4065</b>	<b>272</b>	<b>479</b>	<b>455</b>	<b>0</b>	<b>0</b>	<b>455</b>
<b>NPC</b>							
Narora APS	440	64	47	41	0	0	41
RAPP (C )	440	64	56	49	0	0	49
<b>TOTAL</b>	<b>880</b>	<b>128</b>	<b>103</b>	<b>89</b>	<b>0</b>	<b>0</b>	<b>89</b>
<b>SJVNL</b>							
Nathpa Jhakri HEP	1500	149	142	135	0	0	135
<b>THDC</b>							
Tehri Hydro	1000	99	63	60	0	0	60
Koteshwar HEP	400	40	39	37	0	0	37
<b>TOTAL</b>	<b>1400</b>	<b>139</b>	<b>102</b>	<b>97</b>	<b>0</b>	<b>0</b>	<b>97</b>
<b>Total</b>	<b>18427</b>	<b>2110</b>	<b>3188</b>	<b>2846</b>	<b>0</b>	<b>0</b>	<b>2846</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)
<b>Allocation from ER &amp; Tala HEP</b>							
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
Kahalgaon-II	1500	0	157	131	0	0	131
<b>Total ER</b>	<b>5960</b>	<b>153</b>	<b>261</b>	<b>217</b>	<b>0</b>	<b>0</b>	<b>217</b>
<b>Joint Venture</b>							
Jhajjar TPS	1500	114	319	286	0	0	286
Ultra Mega Projects							
Sasan	3960	0	446	383	0	0	383
<b>Grand Total</b>	<b>29847</b>	<b>2377</b>	<b>4213</b>	<b>3733</b>	<b>0</b>	<b>0</b>	<b>3733</b>

## **13.2 ALLOCATION OF POWER TO DELHI DISCOMS FROM VARIOUS SOURCES**

### a) ALLOCATION OF POWER TO VARIOUS LICENSEENS

#### i) ALLOCATION W.E.F. 01.04.2015 to 30.06.2015.

**(Allocation In % )**

<b>SOURCES</b>	<b>LICENSEES</b>					
	<b>BRPL</b>	<b>BYPL</b>	<b>TPDDL</b>	<b>NDMC</b>	<b>MES</b>	<b>Total</b>
BTPS	33.42	18.99	22.77	17.73	7.09	100.00
RPH	44.42	25.27	30.31	0.00	0.00	100.00
GT	44.45	25.26	30.29	0.00	0.00	100.00
Pragati	30.98	17.61	21.11	30.30	0.00	100.00
Dadri Th-I	63.910	12.453	1.936	21.701	0.00	100.00
Bawana	31.130	18.000	21.750	7.300	1.820	80.00
Singrauli	19.76	49.56	30.68	0.00	0.000	100.000
Sasan	19.76	49.56	30.68	0.00	0.000	100.000
Aravali Jhajjar	0.00	0.00	0.00	0.00	0.000	100.000
DADRI TH II	43.92	25.40	30.68	<b>0.00</b>	<b>0.000</b>	100.000

Note :-

- i) 1 MW allocated from unallocated quota from RPH to IP.
- ii) Based on commercial operation of 4 units of Sasan (660 MW each). The allocation from Sasan, Singrauli, Dadri(Th)-I & Jhajjar was revised w.e.f. 01.08.2014 as per DERC order.
- iii) Allocation from Jhajjar w.e.f. 01.08.2014 to 30.09.2015 is zero as per NRPC allocation order ( 11 & 24).
- iv) Allocation from Dadri(Th)-I w.e.f. 10.09.2014 to 31.08.2015 as per NRPC allocation order.
- v) Allocation from BTPS w.e.f. 18:00 hrs of 01.10.2014 as per NRPC allocation order & revert back from 26.12.2014.
- vi) Allocation from Dadri Th-II has been revised w.e.f. 01.04.2015 as per NRPC allocation order.

BRPL : 43.92%, BYPL : 25.40%, TPDDL : 30.68%

- vii) Haryana and Punjab each has 10% share in Bawana CCGT

ii) **ALLOCATION W.E.F. 01.07.2015 to 17.07.2015.**

**(Allocation In % )**

<b>SOURCES</b>	<b>LICENSEES</b>					
	<b>BRPL</b>	<b>BYPL</b>	<b>TPDDL</b>	<b>NDMC</b>	<b>MES</b>	<b>Total</b>
BTPS	33.42	18.99	22.77	17.73	7.09	100.00
RPH*	44.42	25.27	30.31	0.00	0.00	100.00
GT	44.45	25.26	30.29	0.00	0.00	100.00
Pragati	30.98	17.61	21.11	30.30	0.00	100.00
Dadri Th-I	63.910	12.453	1.936	21.701	0.00	100.00
Bawana	31.130	18.000	21.750	7.300	1.820	80.00
Singrauli	19.76	49.56	30.68	0.00	0.000	100.00
Sasan**	19.76	49.56	30.68	0.00	0.000	100.00
Aravali Jhajjar	57.89	<b>11.43</b>	<b>30.68</b>	<b>0.00</b>	<b>0.000</b>	100.00
Dadri Th-II	43.92	25.40	30.68	0.00	0.000	100.00

Note :-

- i) 1 MW allocated from unallocated quota from RPH to IP.
- ii) The allocation from Sasan, Singrauli, Dadri(Th)-I & Jhajjar was revised w.e.f. 01.08.2014 as per DERCI order.
- iii) Allocation from Jhajjar w.e.f. 01.07.2015 is as per NRPC allocation order.
- iv) Allocation from Dadri(Th)-I w.e.f. 10.09.2014 is as per NRPC allocation order.
- v) Allocation from Koldem only allocated to BYPL & TDDPL in the ratio of 45.29 & 54.71 .
- vi) Allocation from other CSGS sources as per DERCI order dated 27.02.2014 (effective from 01.04.2014) is as under:  
BRPL : 43.92%, BYPL : 25.40%, TPDDL : 30.68%
- vii) Haryana and Punjab each has 10% share in Bawana CCGT

**iii) ALLOCATION W.E.F. 18.07.2015 to 30.08.2015.**

**(Allocation In % )**

<b>SOURCES</b>	<b>LICENSEES</b>					
	<b>BRPL</b>	<b>BYPL</b>	<b>TPDDL</b>	<b>NDMC</b>	<b>MES</b>	<b>Total</b>
BTPS	33.42	18.99	22.77	17.73	7.09	100.00
RPH	44.42	25.27	30.31	0.00	0.00	100.00
GT	44.45	25.26	30.29	0.00	0.00	100.00
Pragati	30.98	17.61	21.11	30.30	0.00	100.00
Dadri Th-I	63.910	12.453	1.936	21.701	0.00	100.00
Bawana	31.130	18.000	21.750	7.300	1.820	80.00
Singrauli	19.76	49.56	30.68	0.00	0.000	100.00
Sasan	19.76	49.56	30.68	0.00	0.000	100.00
<b>Aravali Jhajjar</b>	<b>57.89</b>	<b>11.43</b>	<b>30.68</b>	<b>0.00</b>	<b>0.000</b>	<b>100.00</b>
Dadri Th-II	43.92	25.40	30.68	0.00	0.000	100.00
Koldam	0.000	45.19	54.71	0.00	0.00	100.00

Note :-

- i) 1 MW allocated from unallocated quota from RPH to IP.
- ii) The allocation from Sasan, Singrauli, Dadri(Th)-I & Jhajjar was revised w.e.f. 01.08.2014 as per DERCC order.
- iii) Allocation from Jhajjar w.e.f. 01.07.2015 as per NRPC allocation order.
- iv) Allocation from Dadri(Th)-I w.e.f. 10.09.2014 as per NRPC allocation order.
- v) Allocation from Koldam HEP w.e.f 18.07.2015
- vi) Allocation from other CSGS sources as per DERCC order dated 27.02.2014 (effective from 01.04.2014) is as under:  
BRPL : 43.92%, BYPL : 25.40%, TPDDL : 30.68%
- vii) Haryana and Punjab each has 10% share in Bawana CCGT

**iv) ALLOCATION W.E.F. 01.09.2015 to 30.09.2015.**

**(Allocation In % )**

<b>SOURCES</b>	<b>LICENSEES</b>					
	<b>BRPL</b>	<b>BYPL</b>	<b>TPDDL</b>	<b>NDMC</b>	<b>MES</b>	<b>Total</b>
BTPS	33.42	18.99	22.77	17.73	7.09	100.00
RPH	44.42	25.27	30.31	0.00	0.00	100.00
GT	44.45	25.26	30.29	0.00	0.00	100.00
Pragati	30.98	17.61	21.11	30.30	0.00	100.00
DADRI TH-I	48.694	9.488	25.284	16.534	0.00	100.00
Bawana	31.130	18.000	21.750	7.300	1.820	80.00
Singrauli	19.76	49.56	30.68	0.00	0.000	100.00
Sasan	19.76	49.56	30.68	0.00	0.000	100.00
Aravali Jhajjar	57.89	11.43	30.68	0.00	0.000	100.00
Dadri Th-II	43.92	<b>25.40</b>	<b>30.68</b>	<b>0.00</b>	<b>0.000</b>	100.00
Koldam	0.000	45.19	54.71	0.00	0.00	100.00

Note :-

- i) 1 MW allocated from unallocated quota from RPH to IP.
- ii) The allocation from Sasan, Singrauli, Dadri(Th)-I & Jhajjar was revised w.e.f. 01.08.2014 as per DERCI order.
- iii) Allocation from Jhajjar w.e.f. 01.07.2015 is as per NRPC allocation order.
- iv) Allocation from Dadri(Th)-I w.e.f. 01.09.2015 is as per NRPC allocation order.
- v) Allocation from Koldam HEP w.e.f 18.07.2015
- vi) Allocation from other CSGS sources as per DERCI order dated 27.02.2014 (effective from 01.04.2014) is as under:  
BRPL : 43.92%, BYPL : 25.40%, TPDDL : 30.68%
- vii) Haryana and Punjab each has 10% share in Bawana CCGT

v) **ALLOCATION W.E.F. 01.10.2015 to 29.02.2016.**

**(Allocation In % )**

<b>SOURCES</b>	<b>LICENSEES</b>					
	<b>BRPL</b>	<b>BYPL</b>	<b>TPDDL</b>	<b>NDMC</b>	<b>MES</b>	<b>Total</b>
BTPS	33.42	16.10	25.66	17.73	7.09	100.00
RPH	44.42	25.27	30.31	0.00	0.00	100.00
GT	61.11	8.60	30.29	0.00	0.00	100.00
Pragati	30.98	17.61	21.11	30.30	0.00	100.00
DADRI TH-I	48.694	9.488	25.284	16.534	0.00	100.00
Bawana	31.130	18.000	21.750	7.300	1.820	80.00
Singrauli	19.76	49.56	30.68	0.00	0.000	100.00
Sasan	14.832	57.774	27.394	0.00	0.000	100.00
<b>Aravali Jhajjar</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.000</b>	<b>100.00</b>
Dadri Th-II	43.92	25.40	30.68	0.00	0.000	100.00
Koldam	0.000	45.19	54.71	0.00	0.00	100.00

Note :-

- i) 1 MW allocated from unallocated quota from RPH to IP.
- ii) The allocation from Sasan, Singrauli, Dadri(Th)-I & Jhajjar was revised w.e.f. 01.08.2014 as per DERC order. Further allocation from Sasan, BTPS & GT was revised w.e.f. 08.10.2015 as per DERC Tariff order for FY 2015-16.
- iii) Allocation from Jhajjar w.e.f. 01.10.2015 is as per NRPC allocation order is zero.
- iv) Allocation from Dadri(Th)-I w.e.f. 01.09.2015 is as per NRPC allocation order.
- v) Allocation from Koldam HEP w.e.f 18.07.2015 as per NRPC order.
- vi) Allocation from other CSGS sources as per DERC order dated 27.02.2014 (effective from 01.04.2014) is as under:
  - BRPL : 43.92%, BYPL : 25.40%, TPDDL : 30.68%
- vii) Haryana and Punjab each has 10% share in Bawana CCGT

v) **ALLOCATION W.E.F. 01.03.2016 to 14.03.2016.**

**(Allocation In % )**

<b>SOURCES</b>	<b>LICENSEES</b>					
	<b>BRPL</b>	<b>BYPL</b>	<b>TPDDL</b>	<b>NDMC</b>	<b>MES</b>	<b>Total</b>
BTPS	33.42	16.10	25.66	17.73	7.09	100.00
RPH	44.42	25.27	30.31	0.00	0.00	100.00
GT	61.11	8.60	30.29	0.00	0.00	100.00
Pragati	30.98	17.61	21.11	30.30	0.00	100.00
DADRI TH-I	48.694	9.488	25.284	16.534	0.00	100.00
Bawana	31.130	18.000	21.750	7.300	1.820	80.00
Singrauli	19.76	49.56	30.68	0.00	0.000	100.00
Sasan**	14.832	57.774	27.394	0.00	0.000	100.00
<b>Aravali Jhajjar</b>	<b>57.89</b>	<b>11.43</b>	<b>30.68</b>	<b>0.00</b>	<b>0.000</b>	<b>100.00</b>
Dadri Th-II	43.92	25.40	30.68	0.00	0.000	100.00

Note :-

- i) 1 MW allocated from unallocated quota from RPH to IP.
- ii) The allocation from Sasan,Singrauli, Dadri(Th)-I & Jhajjar was revised w.e.f. 01.08.2014 as per DERC order. Further allocation from Sasan, BTPS & GT was revised w.e.f. 08.10.2015 as per DERC Tariff order for FY 2015-16.
- iii) The Surrendered Power of 319 MW of Jhajjar has been given back to Delhi as per NRPC order w.e.f. 01.03.2016.
- iv) Allocation from Dadri(Th)-I w.e.f. 01.09.2015 is as per NRPC allocation order.
- v) Allocation from Koldam HEP is NIL to Delhi Discoms.
- vi) Allocation from other CSGS sources as per DERC order dated 27.02.2014 (effective from 01.04.2014) is as under:  
BRPL : 43.92%, BYPL : 25.40%, TPDDL : 30.68%
- vii) Haryana and Punjab each has 10% share in Bawana CCGT

**vi) ALLOCATION W.E.F. 15.03.2016 to 31.03.2016.**

**(Allocation In % )**

<b>SOURCES</b>	<b>LICENSEES</b>					
	<b>BRPL</b>	<b>BYPL</b>	<b>TPDDL</b>	<b>NDMC</b>	<b>MES</b>	<b>Total</b>
BTPS	33.42	16.10	25.66	17.73	7.09	100.00
RPH	44.42	25.27	30.31	0.00	0.00	100.00
GT	61.11	8.60	30.29	0.00	0.00	100.00
Pragati	30.98	17.61	21.11	30.30	0.00	100.00
DADRI TH-I	48.694	9.488	25.284	16.534	0.00	100.00
Bawana	31.130	18.000	21.750	7.300	1.820	80.00
Singrauli**	19.76	49.56	30.68	0.00	0.000	100.00
Sasan**	14.832	57.774	27.394	0.00	0.000	100.00
<b>Aravali Jhajjar***</b>	<b>57.89</b>	<b>11.43</b>	<b>30.68</b>	<b>0.00</b>	<b>0.000</b>	<b>100.00</b>
Dadri Th-II	43.92	25.40	30.68	0.00	0.000	100.00
Tehri HEP	69.317	0.000	30.683	0.00	0.000	100.00
Koteshwar	69.320	0.000	30.680	0.00	0.000	100.00

**Note :-**

- i) 1 MW allocated from unallocated quota from RPH to IP.
- ii) The allocation from Sasan,Singrauli, Dadri(Th)-I & Jhajjar was revised w.e.f. 01.08.2014 as per DERC order.Further allocation from Sasan, BTPS & GT was revised w.e.f. 08.10.2015 as per DERC Tariff order for FY 2015-16.
- iii) The Surrendered Power of 319 MW of Jhajjar has been given back to Delhi as per NRPC order w.e.f. 01.03.2016.
- iv) Allocation from Dadri (Th)-I w.e.f. 01.09.2015 is as per NRPC allocation order.
- v) Allocation from Koldam HEP is NIL to Delhi Discoms.
- vi) Allocation from Tehri & Koteshwar HEP transfer from BYPL to BRPL w.e.f 15.03.2016
- vii) Allocation from other CSGS sources as per DERC order dated 27.02.2014 (effective from 01.04.2014) is as under:  
BRPL : 43.92%, BYPL : 25.40%, TPDDL : 30.68%
- viii) Haryana and Punjab each has 10% share in Bawana CCGT

**14 DERC vide its letter no.F3(288)/Tariff/DERC/2011-12/3115/4054 dated 28.11.2014 revised the rates of inter discom transfer of surplus power as Indian Energy Exchange + 10Ps per unit.**

**14.1 Inter Discom Transfer of surplus power on day ahead basis @ Indian Exchange Rate + 10Ps per unit for 2015-16**

**All figures in MU**

<b>Months</b>	<b>BRPL Energy Sale to</b>				
	<b>BYPL</b>	<b>MES</b>	<b>NDMC</b>	<b>TPDDL</b>	<b>Total</b>
Apr-15	0.000000	0.000000	0.000000	0.000000	0.000000
May-15	0.000000	0.000000	0.000000	0.000000	0.000000
Jun-15	0.000000	0.000000	0.000000	0.000000	0.000000
Jul-15	0.000000	0.000000	0.000000	0.000000	0.000000
Aug-15	0.000000	0.000000	0.000000	0.000000	0.000000
Sep-15	0.000000	0.000000	0.000000	0.000000	0.000000
Oct-15	0.000000	0.000000	0.000000	0.000000	0.000000
Nov-15	0.000000	0.000000	0.000000	0.000000	0.000000
Dec-15	0.000000	0.000000	0.000000	1.152180	1.152180
Jan-16	0.000000	0.000000	0.000000	5.203443	5.203443
Feb-16	0.000000	0.000000	0.000000	3.359361	3.359361
Mar-16	0.000000	0.000000	0.000000	0.000000	0.000000
<b>Total</b>	<b>0.000000</b>	<b>0.000000</b>	<b>0.000000</b>	<b>9.714984</b>	<b>9.714984</b>

<b>Months</b>	<b>BYPL Energy Sale to</b>				
	<b>BRPL</b>	<b>MES</b>	<b>NDMC</b>	<b>TPDDL</b>	<b>Total</b>
Apr-15	0.172364	0.000000	0.000000	0.018890	0.191254
May-15	6.704541	0.000000	0.000000	0.419099	7.123640
Jun-15	9.332713	0.000000	0.000000	0.286253	9.618966
Jul-15	29.598051	0.000000	0.000000	0.000000	29.598051
Aug-15	12.748119	0.000000	0.000000	0.000000	12.748119
Sep-15	10.073774	0.000000	0.000000	0.000000	10.073774
Oct-15	3.455759	0.000000	0.000000	0.113434	3.569193
Nov-15	2.584524	0.000000	0.000000	11.970726	14.555250
Dec-15	7.952742	0.000000	0.000000	35.829967	43.782709
Jan-16	21.273957	0.000000	0.000000	20.375657	41.649614
Feb-16	7.671751	0.000000	0.000000	13.526004	21.197755
Mar-16	3.336130	0.000000	0.000000	3.801877	7.138007
<b>Total</b>	<b>114.904425</b>	<b>0.000000</b>	<b>0.000000</b>	<b>86.341907</b>	<b>201.246332</b>

Months	<b>MES Energy Sale to</b>				
	<b>BRPL</b>	<b>BYPL</b>	<b>NDMC</b>	<b>TPDDL</b>	<b>Total</b>
Apr-15	0.000000	0.000000	0.000000	0.000000	0.000000
May-15	0.000000	0.000000	0.000000	0.000000	0.000000
Jun-15	0.000000	0.000000	0.000000	0.000000	0.000000
Jul-15	0.000000	0.000000	0.000000	0.000000	0.000000
Aug-15	0.000000	0.000000	0.000000	0.000000	0.000000
Sep-15	0.000000	0.000000	0.000000	0.000000	0.000000
Oct-15	0.000000	0.000000	0.000000	0.000000	0.000000
Nov-15	0.000000	0.000000	0.000000	0.000000	0.000000
Dec-15	0.000000	0.000000	0.000000	0.000000	0.000000
Jan-16	0.000000	0.000000	0.000000	0.000000	0.000000
Feb-16	0.000000	0.000000	0.000000	0.000000	0.000000
Mar-16	0.000000	0.000000	0.000000	0.000000	0.000000
<b>Total</b>	<b>0.000000</b>	<b>0.000000</b>	<b>0.000000</b>	<b>0.000000</b>	<b>0.000000</b>

Months	<b>NDMC Energy Sale to</b>				
	<b>BRPL</b>	<b>BYPL</b>	<b>MES</b>	<b>TPDDL</b>	<b>Total</b>
Apr-15	0.000000	0.000000	0.000000	0.000000	0.000000
May-15	0.000000	0.000000	0.000000	0.000000	0.000000
Jun-15	0.000000	0.000000	0.000000	0.000000	0.000000
Jul-15	0.000000	0.000000	0.000000	0.000000	0.000000
Aug-15	0.000000	0.000000	0.000000	0.000000	0.000000
Sep-15	0.000000	0.000000	0.000000	0.000000	0.000000
Oct-15	0.000000	0.000000	0.000000	0.000000	0.000000
Nov-15	0.000000	0.000000	0.000000	0.000000	0.000000
Dec-15	0.000000	0.000000	0.000000	0.000000	0.000000
Jan-16	0.000000	0.000000	0.000000	0.000000	0.000000
Feb-16	0.000000	0.000000	0.000000	0.000000	0.000000
Mar-16	0.000000	0.000000	0.000000	0.000000	0.000000
<b>Total</b>	<b>0.000000</b>	<b>0.000000</b>	<b>0.000000</b>	<b>0.000000</b>	<b>0.000000</b>

Months	TPDDL Energy Sale to				
	BRPL	BYPL	MES	NDMC	Total
Apr-15	3.434599	0.093130	0.000000	0.000000	3.527729
May-15	15.831283	0.164410	0.000000	0.000000	15.995693
Jun-15	51.923412	1.306122	0.000000	0.000000	53.229534
Jul-15	67.899187	0.091873	0.000000	0.000000	67.991060
Aug-15	64.115574	1.817812	0.000000	0.000000	65.933386
Sep-15	47.798663	2.170114	0.000000	0.000000	49.968777
Oct-15	0.760551	0.039882	0.000000	0.000000	0.800433
Nov-15	0.000000	0.000000	0.000000	0.000000	0.000000
Dec-15	0.000000	0.000000	0.000000	0.000000	0.000000
Jan-16	0.000000	0.000000	0.000000	0.000000	0.000000
Feb-16	0.000000	0.000000	0.000000	0.000000	0.000000
Mar-16	0.000000	0.000000	0.000000	0.000000	0.000000
<b>Total</b>	<b>251.763269</b>	<b>5.683343</b>	<b>0.000000</b>	<b>0.000000</b>	<b>257.446612</b>

#### 14.2 Inter Discom Transfer of surplus power to avoid penalty on the basis of Actual Energy Meter data.

**All figures in MU**

Months	Sale Energy To				
	BRPL	BYPL	TPDDL	NDMC	MES
<b>Apr-15</b>	0.503465	0.268191	0.280114	0.277617	1.329388
<b>May-15</b>	1.050508	0.593757	1.269853	0.158692	3.072811
<b>Jun-15</b>	1.413733	0.532569	1.695889	0.240624	3.882816
<b>Jul-15</b>	1.157544	0.095831	1.587227	0.148607	2.989208
<b>Aug-15</b>	3.100091	0.491743	2.913356	0.593741	7.098932
<b>Sep-15</b>	0.776080	0.235976	1.551049	0.286952	2.850057
<b>Oct-15</b>	0.398303	0.121791	0.407267	0.031854	0.959215
<b>Nov-15</b>	0.185638	0.015549	0.144503	0.033268	0.378958
<b>Dec-15</b>	0.089436	0.018024	0.163414	0.077203	0.348077
<b>Jan-16</b>	0.149667	0.025999	0.335794	0.227816	0.739276
<b>Feb-16</b>	0.007676	0.031603	0.046952	0.293239	0.379469
<b>Mar-16</b>	0.011899	0.004832	0.057804	0.146895	0.221431
<b>Total</b>	<b>8.844041</b>	<b>2.435865</b>	<b>10.453223</b>	<b>2.516509</b>	<b>24.249638</b>

**All figures in MU**

Months	BYPL Sale Energy To				
	BRPL	TPDDL	NDMC	MES	Total(Mus)
<b>Apr-15</b>	0.003041	0.000221	0.000000	0.007281	0.010543
<b>May-15</b>	0.009951	0.047072	0.089459	0.014263	0.160745
<b>Jun-15</b>	0.111548	0.048707	0.032450	0.020098	0.212802
<b>Jul-15</b>	0.267054	0.015473	0.166298	0.034021	0.482846
<b>Aug-15</b>	0.010903	0.073664	0.103709	0.030680	0.218956
<b>Sep-15</b>	0.000000	0.001719	0.069365	0.013129	0.084213
<b>Oct-15</b>	0.018176	0.004655	0.027333	0.000045	0.050209
<b>Nov-15</b>	0.097529	0.000045	0.033685	0.002759	0.134019
<b>Dec-15</b>	0.070531	0.000144	0.023894	0.018813	0.113382
<b>Jan-16</b>	4.153386	0.160713	0.658718	0.417026	5.389843
<b>Feb-16</b>	0.006152	0.002694	0.003032	0.072035	0.083913
<b>Mar-16</b>	0.014176	0.019315	0.262095	0.101084	0.396670
<b>Total</b>	4.762448	0.374422	1.470038	0.731233	7.338140

Months	TPDDL Sale Energy To				
	BRPL	BYPL	NDMC	MES	Total(Mus)
<b>Apr-15</b>	0.049515	0.058959	0.014899	0.023106	0.146480
<b>May-15</b>	0.106041	0.575869	0.752402	0.120882	1.555195
<b>Jun-15</b>	0.399315	0.697351	0.549324	0.090233	1.736223
<b>Jul-15</b>	1.021321	0.823871	1.302844	0.197385	3.345421
<b>Aug-15</b>	0.049370	0.324202	0.314497	0.072019	0.760088
<b>Sep-15</b>	0.086555	0.288787	0.376630	0.120461	0.872433
<b>Oct-15</b>	0.222201	0.484808	0.196068	0.017983	0.921059
<b>Nov-15</b>	0.467803	0.116070	0.222924	0.052374	0.859170
<b>Dec-15</b>	0.649470	0.229652	0.158468	0.142272	1.179861
<b>Jan-16</b>	0.479854	0.179285	0.231363	0.101677	0.992179
<b>Feb-16</b>	0.101025	0.005965	0.007272	0.162085	0.276348
<b>Mar-16</b>	0.367362	0.031269	0.155532	0.172841	0.727004
<b>Total</b>	3.999831	3.816088	4.282223	1.273319	13.371460

**All figures in MU**

Months	Sale Energy To					
	NDMC	BRPL	BYPL	TPDDL	MES	Total(Mus)
<b>Apr-15</b>	0.431275	0.667414	0.219298	0.138099	1.456085	
<b>May-15</b>	0.238897	0.695451	0.335673	0.018369	1.288390	
<b>Jun-15</b>	0.142591	0.276402	0.103809	0.029305	0.552108	
<b>Jul-15</b>	0.124442	0.126550	0.025196	0.011997	0.288185	
<b>Aug-15</b>	0.016531	0.106230	0.003000	0.023826	0.149586	
<b>Sep-15</b>	0.001099	0.054966	0.009716	0.003289	0.069070	
<b>Oct-15</b>	0.042506	0.162614	0.004169	0.014493	0.223781	
<b>Nov-15</b>	0.036601	0.028608	0.000000	0.019841	0.085050	
<b>Dec-15</b>	0.048612	0.001502	0.000000	0.019574	0.069689	
<b>Jan-16</b>	0.091956	0.297190	0.009508	0.072506	0.471160	
<b>Feb-16</b>	0.107929	0.029926	0.019706	0.193435	0.350996	
<b>Mar-16</b>	0.011039	0.000000	0.000444	0.005266	0.016749	
<b>Total</b>	1.293478	2.446854	0.730518	0.549999	5.020849	

Months	Sale Energy To					
	MES	BRPL	BYPL	TPDDL	NDMC	Total(Mus)
<b>Apr-15</b>	0.027101	0.046488	0.011577	0.000008	0.085174	
<b>May-15</b>	0.018161	0.054824	0.028777	0.024672	0.126434	
<b>Jun-15</b>	0.019102	0.068085	0.004231	0.023472	0.114890	
<b>Jul-15</b>	0.052820	0.021091	0.005922	0.020747	0.100580	
<b>Aug-15</b>	0.004123	0.050633	0.004330	0.069937	0.129023	
<b>Sep-15</b>	0.003667	0.024702	0.001533	0.002886	0.032787	
<b>Oct-15</b>	0.135239	0.221430	0.008468	0.082189	0.447326	
<b>Nov-15</b>	0.188136	0.159945	0.007622	0.075124	0.430826	
<b>Dec-15</b>	0.072624	0.045216	0.000045	0.007579	0.125464	
<b>Jan-16</b>	0.046401	0.041567	0.010713	0.008019	0.106701	
<b>Feb-16</b>	0.026611	0.015688	0.010355	0.004542	0.057195	
<b>Mar-16</b>	0.028445	0.000177	0.000000	0.011783	0.040405	
<b>Total</b>	0.622430	0.749844	0.093573	0.330957	1.796805	

## 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 been 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 DSM 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 1/4/2015

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 V	11/6.6KV	TOTAL		( + )	220/66/33KV	11/6.6KV	TOTAL	
1)	TPDDL	63	36	99	84	56	0	56	45	129
2)	BRPL	86	36	122	81	75	08	83	65	146
3)	BYPL	70	22	92	55	65	1	66	49	104
4)	NDMC	36	6	42	40	31	4	35	35	75
5)	MES	8	8	16	15	8	7	15	15	30
	<b>TOTAL</b>	<b>262</b>	<b>108</b>	<b>371</b>	<b>275</b>	<b>235</b>	<b>20</b>	<b>255</b>	<b>209</b>	<b>484</b>
	<b>GRAND TOTAL</b>			<b>626</b>	<b>484</b>					

### 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	Nos. of meters as per beneficiary utility
01	PPCL BWN	0	4		4
02	RPH	12	2		2
03	G.T.	8	2		2
04	Pragati	3	3		-
05	BTPS	6	6		6
	<b>TOTAL</b>	<b>29</b>	<b>17</b>		<b>14</b>

- a) No. of Meters involved for Intrastate = 275 (M)+ 209 (C)+27 (Local TX.) ABT billing with DISCOMs
- b) No of Meters involved for UI billing of Genco= 17 (M)+ 14 (C)
- c) Overall meters dealt by DTL = 542

### 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	38	38
	Total		76

## 15.4 The details of the DSM Transactions for 2015-16 at Intrastate Level are as under:

### 15.4.1 DSM Transactions of TPDDL

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-15	661.400377	669.134108	7.733731	217.669	208.979	8.322	23.044	240.345	310.77
May-15	861.527422	862.761195	1.233773	219.915	152.887	80.332	85.860	319.079	2586.21
Jun-15	869.309769	860.166724	-9.143046	-31.618	-67.096	82.335	43.932	59.171	-64.72
Jul-15	907.718012	883.883627	-23.834385	-248.153	-400.019	207.670	17.955	-174.393	73.17
Aug-15	884.921494	874.835918	-10.085576	-79.279	-149.831	106.741	18.953	-24.137	23.93
Sep-15	882.183935	867.939654	-14.244281	-273.920	-327.615	139.679	9.375	-178.561	125.36
Oct-15	760.226432	741.312228	-18.914204	-244.467	-300.299	119.928	5.217	-175.155	92.61
Nov-15	556.228572	546.545043	-9.683529	-122.252	-159.619	38.480	2.992	-118.147	122.01
Dec-15	589.116890	581.387511	-7.729379	-96.438	-112.195	36.594	3.158	-72.443	93.72
Jan-16	601.118129	592.003054	-9.115075	-67.966	-101.275	68.474	20.596	-12.205	13.39
Feb-16	546.094156	545.764671	-0.329485	16.485	-62.294	12.987	3.925	-45.383	1377.38
Mar-16	592.524204	590.333872	-2.190332	-3.915	-7.360	13.859	4.417	10.916	-49.84
<b>Total</b>	<b>8712.369392</b>	<b>8616.067604</b>	<b>-96.301788</b>	<b>-713.940</b>	<b>-1325.738</b>	<b>915.401</b>	<b>239.424</b>	<b>-170.914</b>	<b>17.75</b>

**Note :**

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

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

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

#### 15.4.2 DSM 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	Addition al UI Amount in Rs. Lacs	Differenc e in UI Capp Amount in Rs. Lacs	Net UI Amount in Rs. Lacs	Avg. cost in Ps/ Unit
Apr-15	915.304791	902.913007	-12.391784	-71.899	-134.129	75.527	24.782	-33.819	27.29
May-15	1306.789386	1277.010944	-29.778442	-197.433	-389.284	220.873	63.186	-105.224	35.34
Jun-15	1294.325328	1271.072782	-23.252546	-187.961	-279.481	174.672	97.736	-7.073	3.04
Jul-15	1280.035020	1266.894399	-13.140621	8.915	-121.136	186.422	73.452	138.738	-105.58
Aug-15	1325.301629	1265.192443	-60.109186	-754.386	-1224.450	637.892	18.890	-567.668	94.44
Sep-15	1287.896439	1245.213658	-42.682781	-764.522	-1050.059	535.239	11.537	-503.284	117.91
Oct-15	1024.843479	1003.217927	-21.625552	-271.221	-355.838	194.779	21.120	-139.938	64.71
Nov-15	695.798865	705.880122	10.081257	263.702	234.835	34.894	57.879	327.608	324.97
Dec-15	742.953846	746.573143	3.619297	126.487	94.030	38.659	22.439	155.128	428.61
Jan-16	787.388999	780.966864	-6.422135	25.232	-21.144	91.596	41.957	112.409	-175.03
Feb-16	673.737539	681.954246	8.216707	211.666	75.573	21.045	28.352	124.970	152.09
Mar-16	722.604422	745.727470	23.123048	484.951	489.300	12.501	96.384	598.185	258.70
<b>Total</b>	<b>12056.979743</b>	<b>11892.617004</b>	<b>-164.362738</b>	<b>-1126.469</b>	<b>-2681.783</b>	<b>2224.099</b>	<b>557.716</b>	<b>100.032</b>	<b>-6.09</b>

**Note :**

- i) (-)ve indicates amount receivable by the Utility
- ii) (+)ve indicates amount payable by the Utility.
- iii) The above UI / DSM accounts are subject to change if accounts are revised by NRPC due to any reason

### 15.4.3 DSM 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-15	501.672339	519.834516	18.162177	383.747	384.466	1.817	38.981	425.263	234.15
May-15	707.538365	722.345684	14.807319	416.301	413.951	22.549	59.750	496.250	335.14
Jun-15	714.635368	728.524879	13.889511	380.282	422.784	30.111	93.860	546.755	393.65
Jul-15	720.488823	728.480396	7.991573	298.331	298.024	50.833	63.036	411.894	515.41
Aug-15	704.344365	716.844607	12.500242	374.821	412.986	31.117	64.414	508.517	406.81
Sep-15	702.829752	709.519533	6.689781	244.649	299.088	35.796	23.530	358.414	535.76
Oct-15	576.212147	587.815270	11.603123	306.015	414.419	19.601	35.726	469.745	404.84
Nov-15	389.061194	401.039320	11.978126	271.285	273.171	2.386	26.138	301.695	251.87
Dec-15	402.577237	409.799581	7.222344	210.858	211.555	16.135	23.755	251.445	348.15
Jan-16	428.661108	424.526400	-4.134708	23.179	-61.671	106.392	13.446	58.167	-140.68
Feb-16	382.432794	385.218032	2.785238	67.117	24.421	5.395	3.969	33.785	121.30
Mar-16	424.616420	427.770317	3.153897	71.765	65.467	10.447	5.841	81.755	259.22
Total	6655.069911	6761.718535	106.64862 4	3048.350	3158.660	332.578	452.446	3943.684	369.78

**Note :**

- i) (-)ve indicates amount receivable by the Utility
- ii) (+)ve indicates amount payable by the Utility.
- iii) The above UI / DSM accounts are subject to change if accounts are revised by NRPC due to any reason

#### 15.4.4 DSM Transactions of NDMC

Month	Scheduled drawal in Mus	Actual drawal in MUs in Mus	UI Energy in Mus	UI amount as per Inrastate 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-15	116.926163	110.389707	-6.536456	-49.109	-105.431	51.287	18.509	-35.635	54.52
May-15	160.389674	158.072973	-2.316701	95.223	43.489	58.600	67.663	169.752	-732.73
Jun-15	159.744164	163.216196	3.472032	155.916	188.125	32.086	83.622	303.833	875.09
Jul-15	157.699173	162.280520	4.581347	153.920	144.069	33.321	66.439	243.828	532.22
Aug-15	155.734599	160.688482	4.953882	163.040	173.393	27.529	47.062	247.984	500.58
Sep-15	150.235095	154.733010	4.497915	170.017	232.664	20.448	33.392	286.503	636.97
Oct-15	127.270147	125.343852	-1.926295	34.219	62.245	27.048	32.900	122.193	-634.34
Nov-15	88.883324	95.152354	6.269030	137.824	136.026	1.549	17.758	155.333	247.78
Dec-15	97.524239	104.496689	6.972450	182.561	186.231	4.767	22.104	213.102	305.63
Jan-16	106.630099	105.562057	-1.068042	51.872	40.791	45.492	22.583	108.866	-1019.30
Feb-16	90.245564	90.356006	0.110442	25.473	-26.282	10.874	9.966	-5.442	-492.72
Mar-16	93.300941	101.950797	8.649856	177.145	181.404	0.737	38.973	221.114	255.63
<b>Total</b>	<b>1504.583182</b>	<b>1532.242643</b>	<b>27.659461</b>	<b>1298.102</b>	<b>1256.723</b>	<b>313.738</b>	<b>460.969</b>	<b>2031.430</b>	<b>734.44</b>

**Note :**

- i) (-)ve indicates amount receivable by the Utility
- ii) (+)ve indicates amount payable by the Utility.
- iii) The above UI / DSM accounts are subject to change if accounts are revised by NRPC due to any reason

#### 15.4.5 DSM Transactions of MES

Month	Schedule d 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-15	15.816194	16.964401	1.148207	38.636	34.473	4.425	23.440	62.337	542.91
May-15	22.373662	22.505274	0.131612	28.798	26.153	6.431	14.256	46.840	3558.91
Jun-15	21.901990	22.960480	1.058490	34.979	44.712	2.255	15.096	62.064	586.34
Jul-15	23.196045	23.430819	0.234774	12.538	10.770	6.163	5.676	22.610	963.04
Aug-15	21.508013	22.904220	1.396207	38.126	45.710	2.685	8.159	56.554	405.06
Sep-15	21.356807	22.183035	0.826227	31.218	41.520	6.410	8.264	56.194	680.12
Oct-15	18.863803	17.177862	-1.685941	-16.005	-24.286	18.300	4.165	-1.821	10.80
Nov-15	14.081419	13.546017	-0.535402	4.471	-2.979	8.234	7.281	12.536	-234.14
Dec-15	17.676331	19.285390	1.609059	57.805	50.087	11.574	30.664	92.325	573.78
Jan-16	21.316598	22.508234	1.191636	33.201	69.566	3.092	11.706	84.364	707.97
Feb-16	13.960353	16.686280	2.725927	51.130	37.794	2.742	33.605	74.141	271.99
Mar-16	9.874289	15.436342	5.562053	108.553	101.750	0.417	91.323	193.490	347.88
<b>Total</b>	<b>221.925505</b>	<b>235.588353</b>	<b>13.662848</b>	<b>423.449</b>	<b>435.271</b>	<b>72.729</b>	<b>253.634</b>	<b>761.633</b>	<b>557.45</b>

**Note :**

- i) (-)ve indicates amount receivable by the Utility
- ii) (+)ve indicates amount payable by the Utility.
- iii) The above UI / DSM accounts are subject to change if accounts are revised by NRPC due to any reason

#### 15.4.6 DSM Transactions of IP

Month	Schedule d drawal in Mus	Actual drawal in MUs in Mus	UI Energy in Mus	UI amount as per Inrastate 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 Amoun t in Rs. Lacs	Net UI Amount in Rs. Lacs	Avg. cost in Ps/ Unit
Apr-15	0.720000	0.070001	-0.649999	-13.335	-14.539	11.520	0.454	-2.565	39.47
May-15	0.744000	0.079836	-0.664164	-14.605	-13.646	12.595	0.312	-0.739	11.12
Jun-15	0.720000	0.054041	-0.665959	-11.960	-4.494	10.368	0.604	6.478	-97.27
Jul-15	0.744000	0.042818	-0.701182	-14.286	-11.402	12.420	0.301	1.319	-18.81
Aug-15	0.744000	0.022789	-0.721211	-17.394	-15.163	15.202	0.073	0.112	-1.55
Sep-15	0.720000	0.039330	-0.680670	-20.601	-16.555	17.923	0.071	1.440	-21.15
Oct-15	0.744000	0.040423	-0.703577	-15.905	-8.334	13.852	0.064	5.583	-79.35
Nov-15	0.720000	0.027865	-0.692135	-14.023	-11.439	12.247	0.137	0.945	-13.66
Dec-15	0.744000	0.029070	-0.714930	-15.850	-13.701	13.821	0.111	0.232	-3.24
Jan-16	0.744000	0.032397	-0.711603	-13.282	-10.969	11.586	0.202	0.819	-11.51
Feb-16	0.696000	0.003734	-0.692266	-11.617	-65.728	10.195	0.169	-55.364	799.75
Mar-16	0.744000	-0.000057	-0.744057	-13.986	-10.784	12.274	0.147	1.636	-21.99
<b>Total</b>	<b>8.784000</b>	<b>0.442247</b>	<b>-8.341753</b>	<b>-176.844</b>	<b>-196.754</b>	<b>154.004</b>	<b>2.646</b>	<b>-40.105</b>	<b>48.08</b>

**Note :**

- i) (-)ve indicates amount receivable by the Utility
- ii) (+)ve indicates amount payable by the Utility.
- iii) The above UI / DSM accounts are subject to change if accounts are revised by NRPC due to any reason

### 15.4.7 DSM Transactions of RPH

Month	Schedule d 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 equate 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 Amoun t in Rs. Lacs	Net UI Amount in Rs. Lacs	Avg. cost in Ps/ Unit
Apr-15	14.187500	14.495214	0.307714	-4.896	-6.503	4.705	3.113	1.315	42.74
May-15	23.829000	24.340009	0.511009	-10.906	-9.549	5.870	1.747	-1.932	-37.81
Jun-15	-1.015250	-0.726725	0.288525	-5.637	-1.682	4.702	1.015	4.035	139.84
Jul-15	-0.951000	-0.695064	0.255936	-5.104	-4.080	5.089	1.486	2.495	97.48
Aug-15	-0.929000	-0.697079	0.231921	-5.882	-5.153	3.818	0.034	-1.300	-56.07
Sep-15	-0.909000	-0.719975	0.189025	-5.934	-4.591	4.309	0.110	-0.172	-9.09
Oct-15	-0.915000	-0.572396	0.342604	-7.996	-5.018	6.039	0.084	1.105	32.26
Nov-15	-0.882000	-0.499884	0.382116	-8.477	-7.452	6.453	0.047	-0.951	-24.90
Dec-15	-0.933000	-0.557956	0.375044	-9.276	-7.914	6.946	0.032	-0.937	-24.97
Jan-16	-0.924000	-0.458274	0.465726	-9.168	-7.689	7.180	0.116	-0.393	-8.44
Feb-16	-0.876000	-0.363064	0.512936	-9.111	-56.172	7.380	0.122	-48.670	-948.86
Mar-16	-0.933000	-0.447167	0.485833	-9.743	-6.620	7.762	0.146	1.287	26.49
<b>Total</b>	28.749250	33.097639	4.348389	-92.130	-122.425	70.253	8.052	-44.119	-101.46

**Note :**

- i) (-)ve indicates amount receivable by the Utility
- ii) (+)ve indicates amount payable by the Utility.
- iii) The above UI / DSM accounts are subject to change if accounts are revised by NRPC due to any reason

#### 15.4.8 DSM Transactions of GT

Month	Schedule d 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	Addition al UI Amount in Rs. Lacs	Difference in UI Capp Amoun t in Rs. Lacs	Net UI Amount in Rs. Lacs	Avg. cost in Ps/ Unit
Apr-15	62.645250	63.306798	0.661548	-6.076	-6.322	1.192	1.082	-4.048	-61.19
May-15	69.481233	70.144565	0.663332	-1.066	-0.112	8.409	2.377	10.674	160.92
Jun-15	43.119083	42.845687	-0.273396	8.860	15.705	2.807	1.409	19.921	-728.63
Jul-15	45.324884	45.847226	0.522342	-4.811	-2.315	3.557	3.474	4.717	90.30
Aug-15	28.460149	29.123165	0.663016	-9.076	-6.166	5.720	3.268	2.823	42.57
Sep-15	24.254177	24.989578	0.735401	-20.733	-16.683	0.469	1.174	-15.041	-204.52
Oct-15	29.801500	30.208266	0.406766	-8.653	-6.177	0.785	0.916	-4.477	-110.05
Nov-15	28.679500	28.904360	0.224860	-1.181	-0.491	2.164	2.023	3.697	164.41
Dec-15	25.511417	25.549333	0.037916	-1.174	-0.021	0.372	1.306	1.657	436.89
Jan-16	30.154433	30.287390	0.132957	-0.982	0.114	1.021	1.565	2.700	203.09
Feb-16	26.432250	26.632387	0.200137	-2.751	-8.965	0.246	0.096	-8.623	-430.85
Mar-16	27.609221	27.547179	-0.062042	2.819	2.727	0.057	2.893	5.677	-915.04
Total	441.473098	445.385934	3.912836	-44.825	-28.706	26.800	21.582	19.676	50.29

**Note :**

- i) (-)ve indicates amount receivable by the Utility
- ii) (+)ve indicates amount payable by the Utility.
- iii) The above UI / DSM accounts are subject to change if accounts are revised by NRPC due to any reason

#### 15.4.9 DSM Transactions of Pragati

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 equate 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 Amoun t in Rs. Lacs	Net UI Amount in Rs. Lacs	Avg. cost in Ps/ Unit
Apr-15	142.300250	142.668402	0.368152	-5.127	-6.360	0.005	1.105	-5.250	-142.60
May-15	192.964750	193.607280	0.642530	-18.507	-18.844	0.436	0.280	-18.127	-282.12
Jun-15	170.667000	171.140006	0.473006	-8.733	-4.893	0.000	1.220	-3.673	-77.65
Jul-15	145.044500	145.338918	0.294418	-4.559	-2.897	1.351	0.930	-0.616	-20.92
Aug-15	134.601000	135.112950	0.511950	-9.338	-7.361	8.496	8.239	9.374	183.11
Sep-15	166.174580	166.565454	0.390874	-13.556	-8.905	1.458	5.389	-2.058	-52.65
Oct-15	105.491000	105.812958	0.321958	-9.801	-4.741	3.412	1.361	0.032	0.99
Nov-15	110.610250	110.799732	0.189482	-4.949	-3.395	0.928	0.828	-1.639	-86.48
Dec-15	106.900750	107.145600	0.244850	-6.102	-5.274	0.000	0.000	-5.274	-215.41
Jan-16	113.853250	114.630690	0.777440	-19.253	-15.430	7.257	0.442	-7.732	-99.45
Feb-16	98.143000	98.407872	0.264872	-4.574	-14.452	0.024	0.100	-14.328	-540.93
Mar-16	5.667750	6.568374	0.900624	-18.221	-17.059	21.021	0.743	4.704	52.23
<b>Total</b>	<b>1492.418080</b>	<b>1497.798236</b>	<b>5.380156</b>	<b>-122.719</b>	<b>-109.612</b>	<b>44.388</b>	<b>20.639</b>	<b>-44.586</b>	<b>-82.87</b>

#### Note :

- i) (-)ve indicates amount receivable by the Utility
- ii) (+)ve indicates amount payable by the Utility.
- iii) The above UI / DSM accounts are subject to change if accounts are revised by NRPC due to any reason

#### 15.4.10 DSM Transactions of BTPS

Month	Scheduled drawal in Mus	Actual drawal in MUs in Mus	UI Energy in Mus	UI amount as per Instrastate UI account in Rs. Lacs	Adjusted UI Amount to equate 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 Amoun t in Rs. Lacs	Net UI Amount in Rs. Lacs	Avg. cost in Ps/ Unit
Apr-15	150.915000	144.738150	-6.176850	129.986	132.057	-19.836	15.628	127.849	-206.98
May-15	235.020500	230.146534	-4.873966	109.329	113.565	-13.167	19.711	120.109	-246.43
Jun-15	235.342500	231.315084	-4.027416	60.587	87.332	-3.357	2.136	86.111	-213.81
Jul-15	283.355250	272.018832	-11.336418	239.376	274.252	-20.675	0.032	253.609	-223.71
Aug-15	241.531750	226.718096	-14.813654	360.480	462.962	-45.725	4.491	421.727	-284.69
Sep-15	203.514000	193.324916	-10.189084	323.914	515.162	-69.537	4.512	450.137	-441.78
Oct-15	137.506750	133.357326	-4.149424	93.609	138.123	-6.025	6.786	138.884	-334.71
Nov-15	118.358500	115.294348	-3.064152	59.568	62.607	-5.041	3.406	60.972	-198.99
Dec-15	118.794750	117.280824	-1.513926	31.113	35.767	1.802	11.696	49.265	-325.41
Jan-16	121.465250	119.480964	-1.984286	33.397	45.786	-0.529	4.435	49.693	-250.43
Feb-16	115.604250	112.174944	-3.429306	52.124	39.059	-1.292	0.140	37.907	-110.54
Mar-16	122.928750	117.268032	-5.660718	101.086	101.661	-4.633	0.820	97.849	-172.86
<b>Total</b>	<b>2084.337250</b>	<b>2013.118050</b>	<b>-71.219200</b>	<b>1594.570</b>	<b>2008.334</b>	<b>-188.014</b>	<b>73.793</b>	<b>1894.113</b>	<b>-265.96</b>

**Note :**

- i) (-)ve indicates amount receivable by the Utility
- ii) (+)ve indicates amount payable by the Utility.
- iii) The above UI / DSM accounts are subject to change if accounts are revised by NRPC due to any reason

#### 15.4.11 DSM Transactions of Bawana

Month	Scheduled drawal in Mus	Actual drawal in MUs in Mus	UI Energy in Mus	UI amount as per Intra state UI account in Rs. Lacs	Adjusted UI Amount to equate 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-15	203.219750	204.209186	0.989436	-30.004	-29.079	6.344	9.261	-13.474	-136.18
May-15	207.356584	208.802897	1.446313	-46.342	-45.817	1.160	6.680	-37.977	-262.58
Jun-15	174.763500	174.193126	-0.570374	-2.707	18.443	4.133	15.253	37.830	-663.24
Jul-15	117.454250	117.148742	-0.305508	7.912	18.771	16.533	25.557	60.860	-1992.08
Aug-15	-3.600500	-3.635071	-0.034571	-2.080	1.091	23.212	19.888	44.191	-12782.78
Sep-15	158.627250	158.445072	-0.182178	-13.959	-4.754	10.374	10.794	16.414	-901.01
Oct-15	148.649250	148.274403	-0.374847	0.702	7.726	3.988	4.980	16.693	-445.34
Nov-15	164.893500	165.169033	0.275533	-15.517	-12.938	1.712	2.780	-8.447	-306.55
Dec-15	181.515250	182.370751	0.855501	-27.376	-23.105	2.359	6.415	-14.331	-167.52
Jan-16	172.885250	173.760380	0.875130	-23.577	-19.438	2.157	1.910	-15.372	-175.65
Feb-16	174.000000	174.258514	0.258514	-3.914	-15.731	0.006	0.000	-15.725	-608.27
Mar-16	125.382000	125.455806	0.073806	2.843	5.445	3.666	13.574	22.686	3073.74
<b>Total</b>	1825.146084	1828.452838	3.306754	-154.020	-99.386	75.645	117.091	93.349	282.30

**Note :**

- i) (-)ve indicates amount receivable by the Utility
- ii) (+)ve indicates amount payable by the Utility.
- iii) The above UI / DSM accounts are subject to change if accounts are revised by NRPC due to any reason

## 16 REACTIVE POWER MANAGEMENT

### 16.1 INSTALLED CAPACITY OF CAPACITORS IN DELHI AS ON 31.03.2016.

**DETAILS OF THE CAPACITORS INSTALLED IN DELHI SYSTEM LUMPED TO THE NEAREST 220KV GRID SUB-STATIONS AS ON 31.03.2016 IS AS UNDER :-  
(All figures in MVAR)**

S. No.	SUB-STATION	Name of Utility	INSTALLED CAPACITY			
			66kV	33kV	11kV	TOTAL
1	<b>IP YARD</b>			30.00		<b>30.00</b>
1	Kamla Market	BYPL			16.35	<b>16.35</b>
2	Minto Road	BYPL				<b>0.00</b>
3	GB Pant Hosp	BYPL			10.48	<b>10.48</b>
4	Delhi Gate	BYPL			10.90	<b>10.90</b>
5	Tilakmarg	NDMC			5.04	<b>5.04</b>
7	Cannaught Place	NDMC			10.08	<b>10.08</b>
8	Kilkari	BRPL		10.08	10.48	<b>20.56</b>
9	NDSE-II	BRPL				<b>0.00</b>
11	Nizamuddin	BRPL				<b>0.00</b>
12	Exhibition-I	BRPL				<b>0.00</b>
13	Exhibition-II	BRPL				<b>0.00</b>
14	Defence Colony	BRPL				<b>0.00</b>
15	IG Stadium	BYPL		10.08	5.45	<b>15.53</b>
16	Lajpat Nagar	BRPL				<b>0.00</b>
17	IP Estate	BYPL			10.90	<b>10.90</b>
			<b>0.00</b>	<b>50.16</b>	<b>79.68</b>	<b>129.84</b>
<b>2</b>	<b>Electric Lane</b>					
1	Electric Lane	NDMC			5.04	<b>5.04</b>
2	Scindia House	NDMC			10.44	<b>10.44</b>
3	Mandi House	NDMC			10.80	<b>10.80</b>
4	Raisina Road	NDMC			10.08	<b>10.08</b>
5	Raja Bazar	NDMC			10.08	<b>10.08</b>
			<b>0.00</b>	<b>0.00</b>	<b>46.44</b>	<b>46.44</b>
<b>3</b>	<b>RPH Station</b>			20.00		<b>20.00</b>
1	Lahori Gate	BYPL			10.49	<b>10.49</b>
2	Jama Masjid	BYPL			10.48	<b>10.48</b>
4	Kamla Market	BYPL				<b>0.00</b>
5	Minto Road	BYPL			10.90	<b>10.90</b>
6	GB Pant Hosp	BYPL				<b>0.00</b>
7	IG Stadium	BYPL				<b>0.00</b>
			<b>0.00</b>	<b>20.00</b>	<b>31.87</b>	<b>51.87</b>

S. No.	SUB-STATION	Name of Utility	INSTALLED CAPACITY			
			66kV	33kV	11kV	TOTAL
4	<b>Parkstreet S/stn</b>		20.00	20.00		<b>40.00</b>
1	Shastri Park	BYPL		10.90	5.45	<b>16.35</b>
2	Faiz Road	BYPL			18.05	<b>18.05</b>
3	Motia Khan	BYPL			16.30	<b>16.30</b>
4	Prasad Nagar	BYPL			16.25	<b>16.25</b>
5	Anand Parbat	BYPL			10.80	<b>10.80</b>
6	Shankar Road	BYPL			0.00	<b>0.00</b>
7	Rama Road	TPDDL			0.00	<b>0.00</b>
8	Baird Road	NDMC			10.08	<b>10.08</b>
9	Hanuman Road	NDMC			10.08	<b>10.08</b>
10	Pusa	TPDDL			5.44	<b>5.44</b>
11	Ridge Valley	BRPL			0.00	<b>0.00</b>
12	B. D. Marg	NDMC			5.40	<b>5.40</b>
13	Nirman Bhawan	NDMC			5.04	<b>5.04</b>
			<b>20.00</b>	<b>30.90</b>	<b>102.89</b>	<b>153.79</b>
<b>5</b>	<b>Naraina S/stn</b>			20.00	5.04	<b>25.04</b>
1	DMS	BYPL			10.85	<b>10.85</b>
2	Mayapuri	BRPL		10.87	10.40	<b>21.27</b>
3	Inderpuri	TPDDL		13.26	5.04	<b>18.30</b>
4	Rewari line	TPDDL				<b>0.00</b>
5	Khyber Lane	MES		10.05		<b>10.05</b>
6	Kirbi Place	MES		10.05		<b>10.05</b>
7	Payal	TPDDL			10.08	<b>10.08</b>
8	A-21 Naraina	TPDDL			4.08	<b>4.08</b>
8	Saraswati Garden	TPDDL			10.08	<b>10.08</b>
			<b>0.00</b>	<b>64.23</b>	<b>55.57</b>	<b>119.80</b>
<b>6</b>	<b>Mehrauli S/stn</b>		80.00		5.04	<b>85.04</b>
1	Adchini	BRPL			14.61	<b>14.61</b>
2	Andheria Bagh	BRPL			10.85	<b>10.85</b>
3	IIT	BRPL			10.90	<b>10.90</b>
4	JNU	BRPL		10.03	10.03	<b>20.06</b>
5	Bijwasan	BRPL			15.47	<b>15.47</b>
6	DC Saket	BRPL		10.08	9.98	<b>20.06</b>
7	Malviya Nagar	BRPL				<b>0.00</b>
8	C Dot	BRPL			10.48	<b>10.48</b>
9	Vasant kunj B-Blk	BRPL	21.79		10.90	<b>32.69</b>
10	Vasant kunj C-Blk	BRPL	20.16		10.48	<b>30.64</b>
11	Palam	BRPL				<b>0.00</b>
12	IGNOU	BRPL			5.04	<b>5.04</b>
13	R. K. Puram-I	BRPL			10.07	<b>10.07</b>
14	Vasant Vihar	BRPL			19.25	<b>19.25</b>

S. No.	SUB-STATION	Name of Utility	INSTALLED CAPACITY			
			66kV	33kV	11kV	TOTAL
15	Pusp Vihar	BRPL			10.44	<b>10.44</b>
16	Bhikaji Cama Place	BRPL		10.08	10.07	<b>20.15</b>
			<b>121.95</b>	<b>30.19</b>	<b>163.61</b>	<b>315.75</b>
<b>7</b>	<b>Vasantkunj S/stn</b>		40.00		5.04	<b>45.04</b>
1	R. K. Puram-II	BRPL			10.80	<b>10.80</b>
2	Vasant kunj C-Blk	BRPL				<b>0.00</b>
3	Vasant kunj D-Blk	BRPL			9.63	<b>9.63</b>
4	Ridge Valley	BRPL				<b>0.00</b>
			<b>40.00</b>	<b>0.00</b>	<b>25.47</b>	<b>65.47</b>
<b>8</b>	<b>Okhla S/stn</b>		60.00	10.00	5.04	<b>75.04</b>
1	Balaji	BRPL			10.80	<b>10.80</b>
2	East of Kailash	BRPL			15.89	<b>15.89</b>
3	Alaknanda	BRPL			16.30	<b>16.30</b>
4	Malviya Nagar	BRPL	21.79	20.16	10.85	<b>52.80</b>
5	Masjid Moth	BRPL			16.30	<b>16.30</b>
6	Nehru Place	BRPL			21.34	<b>21.34</b>
7	Okhla Ph-I	BRPL	21.79		16.30	<b>38.09</b>
8	Okhla Ph-II	BRPL		20.93	15.47	<b>36.40</b>
9	Shivalik	BRPL			10.80	<b>10.80</b>
10	Batra	BRPL			15.90	<b>15.90</b>
11	VSNL	BRPL			10.90	<b>10.90</b>
12	Siri Fort	BRPL			10.49	<b>10.49</b>
13	Tuglakabad	BRPL			10.85	<b>10.85</b>
			<b>103.58</b>	<b>51.09</b>	<b>187.23</b>	<b>341.90</b>
<b>9</b>	<b>Lodhi Road S/stn</b>				20.00	<b>20.00</b>
1	Defence Colony	BRPL			14.85	<b>14.85</b>
2	Hudco	BRPL			10.90	<b>10.90</b>
3	Lajpat Nagar	BRPL			10.90	<b>10.90</b>
4	Nizamuddin	BRPL			10.44	<b>10.44</b>
5	Vidyut Bhawan (Shahjahan Road)	NDMC			10.80	<b>10.80</b>
6	Ex. Gr. II	BRPL			0.00	<b>0.00</b>
7	IHC	BRPL			0.00	<b>0.00</b>
			<b>0.00</b>	<b>0.00</b>	<b>324.06</b>	<b>324.06</b>
<b>10</b>	<b>Sarita Vihar S/stn</b>		20.00		5.04	<b>25.04</b>
1	Sarita Vihar	BRPL			10.07	<b>10.07</b>
2	MCIE	BRPL			10.06	<b>10.06</b>
3	Mathura Road	BRPL	20.16		11.69	<b>31.85</b>
4	Jamia Millia	BRPL			10.89	<b>10.89</b>
5	Sarai Julena	BRPL		10.08	16.29	<b>26.37</b>
6	Jasola	BRPL			5.44	<b>5.44</b>
			<b>40.16</b>	<b>10.08</b>	<b>69.48</b>	<b>119.72</b>

S. No.	SUB-STATION	Name of Utility	INSTALLED CAPACITY			
			66kV	33kV	11kV	TOTAL
11	<b>Wazirabad</b>					
1	Bhagirathi	BYPL		14.40	10.90	<b>25.30</b>
2	Ghonda	BYPL	21.79	22.56	15.94	<b>60.29</b>
3	Seelam Pur	BYPL		10.08	21.39	<b>31.47</b>
4	Dwarkapuri	BYPL			15.46	<b>15.46</b>
5	Nandnagri	BYPL	20.16		16.35	<b>36.51</b>
6	Yamuna Vihar	BYPL			14.40	<b>14.40</b>
7	East of Loni Road	BYPL			10.80	<b>10.80</b>
8	Shastri Park	BYPL			10.90	<b>10.90</b>
9	Karawal Nagar	BYPL			5.40	<b>5.40</b>
10	Sonia Vihar	BYPL			14.70	<b>14.70</b>
			<b>41.95</b>	<b>47.04</b>	<b>136.24</b>	<b>225.23</b>
12	<b>Geeta Colony</b>					
1	Geeta Colony	BYPL			10.49	<b>10.49</b>
2	Kanti Nagar	BYPL			10.49	<b>10.49</b>
3	Kailash Nagar	BYPL			15.48	<b>15.48</b>
4	Seelam Pur	BYPL				<b>0.00</b>
5	Shakar Pur	BYPL			10.80	<b>10.80</b>
			<b>0.00</b>	<b>0.00</b>	<b>36.77</b>	<b>36.77</b>
13	<b>Gazipur S/stn</b>	DTL	40.00		5.04	<b>45.04</b>
1	Dallupura	BYPL	28.80		10.90	<b>39.70</b>
2	Vivek Vihar	BYPL			9.57	<b>9.57</b>
3	GT Road	BYPL			10.85	<b>10.85</b>
4	Kondli	BYPL	20.16		10.85	<b>31.01</b>
5	MVR-I	BYPL			10.90	<b>10.90</b>
6	MVR-II	BYPL	20.16		10.90	<b>31.06</b>
7	PPG Ind. Area	BYPL			10.06	<b>10.06</b>
			<b>109.12</b>	<b>0.00</b>	<b>79.07</b>	<b>188.19</b>
14	<b>Patparganj S/stn</b>	DTL	40.00	20.00	5.04	<b>65.04</b>
1	GH-I	BYPL	19.89		10.45	<b>30.34</b>
2	GH-II	BYPL	20.09		10.90	<b>30.99</b>
3	CBD	BYPL		10.03	15.48	<b>25.51</b>
4	Guru Angad Nagar	BYPL			15.49	<b>15.49</b>
5	Karkadooma	BYPL		10.80	10.44	<b>21.24</b>
6	Preet Vihar	BYPL			10.07	<b>10.07</b>
7	CBD-II	BYPL			10.80	<b>10.80</b>
8	Shakarpur	BYPL				<b>0.00</b>
9	Jhilmil	BYPL			10.80	<b>10.80</b>
10	Dilshad Garden	BYPL	20.16		16.35	<b>36.51</b>
11	Khichripur	BYPL	21.79		10.49	<b>32.28</b>
12	Mother Dairy	BYPL				<b>0.00</b>

S. No.	SUB-STATION	Name of Utility	INSTALLED CAPACITY			
			66kV	33kV	11kV	TOTAL
13	Scope Building	BYPL				<b>0.00</b>
14	Vivek Vihar	BYPL				<b>0.00</b>
15	Akhardham	BYPL			14.60	<b>14.60</b>
			<b>121.93</b>	<b>40.83</b>	<b>140.91</b>	<b>303.67</b>
<b>15</b>	<b>Najafgarh S/stn</b>		60.00		5.04	<b>65.04</b>
1	A4 Paschim Vihar	BRPL			10.80	<b>10.80</b>
2	Nangloi	BRPL	21.73		15.84	<b>37.57</b>
3	Nangloi W/W	BRPL	20.89		10.85	<b>31.74</b>
4	Pankha Road	BRPL			15.88	<b>15.88</b>
5	Jaffarpur	BRPL			15.43	<b>15.43</b>
7	Inst. Area Janakpuri (Sagarpur)	BRPL			17.60	<b>17.60</b>
8	Paschimpuri	BRPL		10.05	15.47	<b>25.52</b>
9	Paschim Vihar	BRPL	41.83		15.43	<b>57.26</b>
10	Mukherjee Park	BRPL			20.83	<b>20.83</b>
11	Udyog Nagar	BRPL			10.43	<b>10.43</b>
12	Choukhandi	BRPL			10.07	<b>10.07</b>
			<b>144.45</b>	<b>10.05</b>	<b>163.67</b>	<b>318.17</b>
<b>16</b>	<b>Pappankalan-I S/stn</b>	<b>BRPL</b>	20.00		5.04	<b>25.04</b>
1	Bindapur Grid G-3 PPK	BRPL	21.73		15.85	<b>37.58</b>
2	Bodella-I	BRPL	20.10		16.24	<b>36.34</b>
3	Bodella-II	BRPL	21.73		17.64	<b>39.37</b>
4	DC Janakpuri	BRPL			10.03	<b>10.03</b>
5	G-2 PPK (Nasirpur)	BRPL			10.80	<b>10.80</b>
6	G-5 PPK (Matiala)	BRPL			15.51	<b>15.51</b>
7	G-6 PPK	BRPL			5.40	<b>5.40</b>
8	G-15 PPK	BRPL			10.80	<b>10.80</b>
9	Harinagar	BRPL	21.18		16.25	<b>37.43</b>
10	Rewari line	TPDDL			5.44	<b>5.44</b>
			<b>104.74</b>	<b>0.00</b>	<b>129.00</b>	<b>233.74</b>
<b>17</b>	<b>BBMB Rohtak Road</b>					
1	S.B. Mill	BRPL			10.07	<b>10.07</b>
2	Rama Road	TPDDL			10.88	<b>10.88</b>
3	Ram Pura	TPDDL			10.48	<b>10.48</b>
4	Rohtak Road	TPDDL			10.08	<b>10.08</b>
5	Vishal	BRPL			10.40	<b>10.40</b>
6	Tri Nagar	TPDDL			5.44	<b>5.44</b>
7	Madipur	BRPL			10.43	<b>10.43</b>
8	Sudershan Park	TPDDL			10.08	<b>10.08</b>
9	Kirti Nagar	TPDDL			5.44	<b>5.44</b>
			<b>0.00</b>	<b>0.00</b>	<b>83.30</b>	<b>83.30</b>

S. No.	SUB-STATION	Name of Utility	INSTALLED CAPACITY			
			66KV	33kV	11kV	TOTAL
18	<b>Shalimarbagh S/stn</b>			40.00	6.00	<b>46.00</b>
1	S.G.T. Nagar	TPDDL			5.44	<b>5.44</b>
2	Wazirpur-1	TPDDL			17.18	<b>17.18</b>
3	Wazirpur-2	TPDDL			13.20	<b>13.20</b>
4	Ashok Vihar	TPDDL			7.20	<b>7.20</b>
5	Rani Bagh	TPDDL			10.88	<b>10.88</b>
6	Haiderpur	TPDDL			11.39	<b>11.39</b>
7	SMB FC	TPDDL			5.44	<b>5.44</b>
8	SMB KHOSLA	TPDDL			5.44	<b>5.44</b>
			<b>0.00</b>	<b>40.00</b>	<b>82.17</b>	<b>122.17</b>
19	<b>Subzimandi S/stn</b>				6.00	<b>6.00</b>
1	Shakti Nagar	TPDDL			5.04	<b>5.04</b>
2	Gulabibagh	TPDDL			10.88	<b>10.88</b>
3	Shahzadabagh	TPDDL			15.79	<b>15.79</b>
4	DU	TPDDL			5.44	<b>5.44</b>
5	Tripolia	TPDDL			10.88	<b>10.88</b>
6	B. G. Road	BYPL			5.40	<b>5.40</b>
			<b>0.00</b>	<b>0.00</b>	<b>59.43</b>	<b>59.43</b>
20	<b>Narela S/stn</b>		40.00		5.04	<b>45.04</b>
1	A-7 Narela	TPDDL			10.88	<b>10.88</b>
2	AIR Kham pur	TPDDL			5.95	<b>5.95</b>
3	Ashok vihar	TPDDL			10.60	<b>10.60</b>
4	Azad Pur	TPDDL			5.44	<b>5.44</b>
5	Tri Nagar	TPDDL			5.44	<b>5.44</b>
6	Badli	TPDDL	20.00		5.95	<b>25.95</b>
7	DSIDC Narela-1	TPDDL			5.95	<b>5.95</b>
8	GTK	TPDDL			5.94	<b>5.94</b>
9	Jahangirpuri	TPDDL	20.00	10.00	0.00	<b>30.00</b>
10	Bhalswa	TPDDL			4.80	<b>4.80</b>
11	Pitampura-I	TPDDL	20.00		5.04	<b>25.04</b>
12	RG-1	TPDDL			5.44	<b>5.44</b>
			<b>100.00</b>	<b>10.00</b>	<b>76.47</b>	<b>186.47</b>
21	<b>Gopalpur S/stn</b>			30.00	5.04	<b>35.04</b>
1	Azad Pur	TPDDL			10.88	<b>10.88</b>
2	Hudson Lane	TPDDL			5.95	<b>5.95</b>
3	Wazirabad	TPDDL			7.20	<b>7.20</b>
4	Indra Vihar	TPDDL			5.95	<b>5.95</b>
5	DIFR	TPDDL			5.44	<b>5.44</b>
6	GTK Road	TPDDL			5.44	<b>5.44</b>
7	Jahangirpuri	TPDDL		10.00	5.95	<b>15.95</b>
8	Civil lines	TPDDL			7.20	<b>7.20</b>

S. No.	SUB-STATION	Name of Utility	INSTALLED CAPACITY			
			66kV	33kV	11kV	TOTAL
9	Pitam Pura-1	TPDDL			5.44	<b>5.44</b>
10	Pitam Pura-3	TPDDL			5.44	<b>5.44</b>
11	Air Khampur	TPDDL			5.95	<b>5.95</b>
12	SGT Nagar	TPDDL			5.95	<b>5.95</b>
13	Tiggipur	TPDDL			10.88	<b>10.88</b>
14	Model Town	TPDDL			0.00	<b>0.00</b>
			<b>0.00</b>	<b>40.00</b>	<b>92.71</b>	<b>132.71</b>
<b>22</b>	<b>Rohini S/stn</b>		40.00		6.00	<b>46.00</b>
1	Rohini Sec-22	TPDDL			10.88	<b>10.88</b>
2	Rohini Sec-24	TPDDL			5.44	<b>5.44</b>
3	Rohini-2	TPDDL			5.95	<b>5.95</b>
4	Rohini-3	TPDDL			5.95	<b>5.95</b>
5	Rohini-4	TPDDL			11.39	<b>11.39</b>
6	Rohini-5	TPDDL			11.39	<b>11.39</b>
7	Rohini-6	TPDDL			13.15	<b>13.15</b>
8	Mangolpuri-1	TPDDL			7.20	<b>7.20</b>
9	Mangolpuri-2	TPDDL	20.00		7.20	<b>27.20</b>
10	Pitam Pura-2	TPDDL			10.48	<b>10.48</b>
11	Rohini DC-1	TPDDL			14.40	<b>14.40</b>
			<b>60.00</b>	<b>0.00</b>	<b>109.43</b>	<b>169.43</b>
<b>23</b>	<b>Kanjhawala S/stn</b>		20.00		5.04	<b>25.04</b>
1	Bawana Clear Water	TPDDL			21.60	<b>21.60</b>
2	Pooth Khoord	TPDDL	20.00		5.44	<b>25.44</b>
3	Rohini Sec-23	TPDDL	20.00		5.44	<b>25.44</b>
4	Rohini -2	TPDDL			7.20	<b>7.20</b>
			<b>60.00</b>	<b>0.00</b>	<b>44.72</b>	<b>104.72</b>
<b>24</b>	<b>BAWANA S/stn</b>					
1	Bawana S/stn No. 6	TPDDL			10.88	<b>10.88</b>
2	Bawana S/stn No. 7	TPDDL				<b>0.00</b>
			<b>0.00</b>	<b>0.00</b>	<b>10.88</b>	<b>10.88</b>
<b>25</b>	<b>Kashmeregate S/stn</b>				5.04	<b>5.04</b>
1	Civil lines	TPDDL			7.20	<b>7.20</b>
2	Town Hall	BYPL			8.64	<b>8.64</b>
3	Fountain	BYPL			5.45	<b>5.45</b>
			<b>0.00</b>	<b>0.00</b>	<b>26.33</b>	<b>26.33</b>
<b>26</b>	<b>Pappankalan-II</b>					
1	DMRC	BRPL				<b>0.00</b>
2	HASTAL	BRPL			21.60	<b>21.60</b>
3	GGSH	BRPL			10.80	<b>10.80</b>
			<b>0.00</b>	<b>0.00</b>	<b>32.40</b>	<b>32.40</b>

S. No.	SUB-STATION	Name of Utility	INSTALLED CAPACITY			
			66kV	33kV	11kV	TOTAL
27	<b>Trauma Center (AIIMS)</b>					
1	AIIMS	NDMC	13.26	5.04	<b>18.30</b>	
2	Trauma Center	NDMC		10.08	<b>10.08</b>	
3	Netaji Nagar	NDMC		15.12	<b>15.12</b>	
4	Sanjay Camp	NDMC		10.08	<b>10.08</b>	
5	Kidwai Nagar	NDMC		10.08	<b>10.08</b>	
6	SJ Airport	NDMC		5.04	<b>5.04</b>	
7	Race Course	NDMC		10.44	<b>10.44</b>	
			<b>0.00</b>	<b>13.26</b>	<b>65.88</b>	<b>79.14</b>
28	<b>MUNDKA</b>					
1	Mangolpuri-I	TPDDL		13.15	<b>13.15</b>	
			<b>0.00</b>	<b>0.00</b>	<b>13.15</b>	<b>13.15</b>
29	<b>DSIDC BAWANA</b>					
1	DSIDC NRL-1	TPDDL	20.00			<b>20.00</b>
2	DSIDC NRL-2	TPDDL		16.32	<b>16.32</b>	
			<b>20.00</b>	<b>0.00</b>	<b>16.32</b>	<b>36.32</b>
30	<b>RIDGE VALLEY</b>					
1	Keventry Diary	NDMC		10.08	<b>10.08</b>	
2	Nehru Park	NDMC		5.04	<b>5.04</b>	
3	State Guest House	NDMC		5.40	<b>5.40</b>	
4	Bapu Dham	NDMC		15.48	<b>15.48</b>	
			<b>0.00</b>	<b>0.00</b>	<b>36.00</b>	<b>36.00</b>
31	<b>IP EXTN (PRAGATI)</b>					
1	Vidyut Bhawan	NDMC		10.08	<b>10.08</b>	
2	Dalhousie Road	NDMC		5.04	<b>5.04</b>	
3	National Archives	NDMC		10.08	<b>10.08</b>	
4	School Lane	NDMC		10.44	<b>10.44</b>	
			<b>0.00</b>	<b>0.00</b>	<b>35.64</b>	<b>35.64</b>
						<b>0.00</b>
	<b>TOTAL CAPACITY</b>					
	Utility		HT	LT	Total	
	BYPL		858.39	102.00	960.39	
	BRPL		1221.29	242.00	1463.29	
	TPDDL		739.78	119.00	858.78	
	NDMC		253.74	24.00	277.74	
	DTL		753.52	0.00	753.52	
	RPH		20.00	0.00	20.00	
	MES		20.10	0.00	20.10	
	<b>TOTAL</b>		<b>3866.82</b>	<b>487.00</b>	<b>4353.82</b>	

**16.2 REACTIVE ENERGY TRANSACTIONS OF DISCOMS WITH DTL**

Month	TPDDPL				
	MVARh Drawal		Amount in Rs. Lacs		Net Amount in Rs. Lacs
	High Voltage	Low Voltage	High Voltage	Low Voltage	
<b>Apr-15</b>	4464.3	-1483.2	-5.58038	-1.85400	-7.43438
<b>May-15</b>	1116.5	2189.1	-1.39563	2.73638	1.34075
<b>Jun-15</b>	-110.2	-680.1	0.13775	-0.85013	-0.71238
<b>Jul-15</b>	2369.5	431.2	-2.96188	0.53900	-2.42288
<b>Aug-15</b>	-1011.1	516.5	1.26388	0.64563	1.90950
<b>Sep-15</b>	983.2	89.3	-1.22900	0.11163	-1.11738
<b>Oct-15</b>	3621.6	-1849.6	-4.52700	-2.31200	-6.83900
<b>Nov-15</b>	-6085.8	-2318.5	7.60725	-2.89813	4.70913
<b>Dec-15</b>	-13712.4	-4697.7	17.14050	-5.87213	11.26838
<b>Jan-16</b>	-12792.4	-4324.8	15.99050	-5.40600	10.58450
<b>Feb-16</b>	-10162.0	-3535.4	12.70250	-4.41925	8.28325
<b>Mar-16</b>	-8658.0	-3771.4	10.82250	-4.71425	6.10825
<b>Total</b>	<b>-39976.800</b>	<b>-19434.600</b>	<b>49.97100</b>	<b>-24.29325</b>	<b>25.67775</b>

Month	BRPL				
	MVARh Drawal		Amount in Rs. Lacs		Net Amount in Rs. Lacs
	High Voltage	Low Voltage	High Voltage	Low Voltage	
<b>Apr-15</b>	9334.5	4596.8	-11.66813	5.74600	-5.92213
<b>May-15</b>	-2229.4	14174.0	2.78675	17.71750	20.50425
<b>Jun-15</b>	-498.7	16183.7	0.62338	20.22963	20.85300
<b>Jul-15</b>	2331.4	7442.7	-2.91425	9.30338	6.38913
<b>Aug-15</b>	2042.4	3787.7	-2.55300	4.73463	2.18163
<b>Sep-15</b>	3038.1	2520.8	-3.79763	3.15100	-0.64663
<b>Oct-15</b>	4029.5	-2195.2	-5.03688	-2.74400	-7.78088
<b>Nov-15</b>	939.4	-3532.5	-1.17425	-4.41563	-5.58988
<b>Dec-15</b>	-10247.1	-3877.9	12.80888	-4.84738	7.96150
<b>Jan-16</b>	-14412.1	-3896.6	18.01513	-4.87075	13.14438
<b>Feb-16</b>	-13709.5	-3953.1	17.13688	-4.94138	12.19550
<b>Mar-16</b>	-3699.6	-4458.2	4.62450	-5.57275	-0.94825
<b>Total</b>	<b>-23081.100</b>	<b>26792.200</b>	<b>28.85138</b>	<b>33.49025</b>	<b>62.34163</b>

Month	BYPL				
	MVARh Drawal		Amount in Rs. Lacs		Net Amount in Rs. Lacs
	High Voltage	Low Voltage	High Voltage	Low Voltage	
Apr-15	5937.6	-7359.0	-7.42200	-9.19875	-16.62075
May-15	-124.9	5372.6	0.15613	6.71575	6.87188
Jun-15	-1690.4	5986.3	2.11300	7.48288	9.59588
Jul-15	1818.7	1694.5	-2.27338	2.11813	-0.15525
Aug-15	1881.6	5944.4	-2.35200	7.43050	5.07850
Sep-15	-563.8	7216.1	0.70475	9.02013	9.72488
Oct-15	7513.7	-3120.9	-9.39213	-3.90113	-13.29325
Nov-15	7848.7	-7562.2	-9.81088	-9.45275	-19.26363
Dec-15	-8055.0	-1815.5	10.06875	-2.26938	7.79938
Jan-16	-9025.5	-6973.3	11.28188	-8.71663	2.56525
Feb-16	-7715.4	-7580.8	9.64425	-9.47600	0.16825
Mar-16	826.6	-6205.7	-1.03325	-7.75713	-8.79038
<b>Total</b>	<b>-1348.100</b>	<b>-14403.500</b>	<b>1.68513</b>	<b>-18.00438</b>	<b>-16.31925</b>

Month	NDMC				
	MVARh Drawal		Amount in Rs. Lacs		Net Amount in Rs. Lacs
	High Voltage	Low Voltage	High Voltage	Low Voltage	
Apr-15	5540.6	1755.7	-6.92575	2.19463	-4.73113
May-15	1085.2	9746.0	-1.35650	12.18250	10.82600
Jun-15	1148.2	7601.0	-1.43525	9.50125	8.06600
Jul-15	2142.5	5802.2	-2.67813	7.25275	4.57463
Aug-15	2774.4	5719.1	-3.46800	7.14888	3.68088
Sep-15	2751.1	5114.6	-3.43888	6.39325	2.95438
Oct-15	4583.3	156.1	-5.72913	0.19513	-5.53400
Nov-15	6510.8	-684.7	-8.13850	-0.85588	-8.99438
Dec-15	4400.4	-1899.7	-5.50050	-2.37463	-7.87513
Jan-16	1961.8	-2289.9	-2.45225	-2.86238	-5.31463
Feb-16	2258.5	-1278.7	-2.82313	-1.59838	-4.42150
Mar-16	5769.6	-1028.3	-7.21200	-1.28538	-8.49738
<b>Total</b>	<b>40926.400</b>	<b>28713.400</b>	<b>-51.15800</b>	<b>35.89175</b>	<b>-15.26625</b>

Month	MES				
	MVARh Drawal		Amount in Rs. Lacs		Net Amount in Rs. Lacs
	High Voltage	Low Voltage	High Voltage	Low Voltage	
Apr-15	191.0	1141.0	-0.23875	1.42625	1.18750
May-15	7.3	2756.6	-0.00913	3.44575	3.43663
Jun-15	7.1	297.9	-0.00888	0.37239	0.36351
Jul-15	67.6	1925.8	-0.08450	2.40725	2.32275
Aug-15	42.5	1871.1	-0.05313	2.33888	2.28575
Sep-15	24.8	2270.6	-0.03100	2.83825	2.80725
Oct-15	109.7	1212.1	-0.13713	1.51513	1.37800
Nov-15	327.8	355.2	-0.40975	0.44400	0.03425
Dec-15	241.1	484.4	-0.30138	0.60550	0.30413
Jan-16	177.3	640.8	-0.22163	0.80100	0.57938
Feb-16	165.6	308.2	-0.20700	0.38525	0.17825
Mar-16	108.4	1563.4	-0.13550	1.95425	1.81875
<b>Total</b>	<b>1470.2</b>	<b>14827.1</b>	<b>-1.83775</b>	<b>18.53389</b>	<b>16.69614</b>

Month	TOTAL DISCOMS				
	MVARh Drawal		Amount in Rs. Lacs		Net Amount in Rs. Lacs
	High Voltage	Low Voltage	High Voltage	Low Voltage	
Apr-15	25468.0	-1348.700	-31.83500	-1.68588	-33.52088
May-15	-145.3	34238.300	0.18163	42.79788	42.97950
Jun-15	-1144.0	29388.810	1.43000	36.73601	38.16601
Jul-15	8729.7	17296.400	-10.91213	21.62050	10.70838
Aug-15	5729.8	17838.800	-7.16225	22.29850	15.13625
Sep-15	6233.4	17211.400	-7.79175	21.51425	13.72250
Oct-15	19857.8	-5797.500	-24.82225	-7.24688	-32.06913
Nov-15	9540.9	-13742.700	-11.92613	-17.17838	-29.10450
Dec-15	-27373.0	-11806.400	34.21625	-14.75800	19.45825
Jan-16	-34090.9	-16843.800	42.61363	-21.05475	21.55888
Feb-16	-29162.8	-16039.800	36.45350	-20.04975	16.40375
Mar-16	-5653.0	-13900.200	7.06625	-17.37525	-10.30900
<b>Total</b>	<b>-22009.400</b>	<b>36494.610</b>	<b>27.51175</b>	<b>45.61826</b>	<b>73.13001</b>

Note : (+) incase of amount is payable by the utility to DTL.

**17. TRANSMISSION SYSTEM AVAILABILITY OF DELHI TRANSCO LTD. FOR THE YEAR 2015-16**

Sl. No.	Name of Elements	Availability in %age
1	AVAILABILITY OF 16NOS. 400/220kV ICTs	98.33
2	AVAILABILITY OF 10NOS. 400kV LINES	99.66
3	AVAILABILITY OF 89NOS. 220kV LINES	98.67
4	AVAILABILITY OF 64NOS. 220/66kV ICTs	99.34
5	AVAILABILITY OF 37NOS. 220/33kV ICTs	98.86
6	AVAILABILITY OF 3NOS. 66/33kV ICTs	96.04
7	AVAILABILITY OF 24NOS. 66/11kV PR. TXS	99.71
8	AVAILABILITY OF 16NOS. 33/11kV PR. TXS	99.70
9	AVAILABILITY OF 138NOS. 66kV FEEDER BAYs	99.90
10	AVAILABILITY OF 158NOS. 33kV FEEDER BAYs	99.90
11	AVAILABILITY OF 205NOS. 11kV FEEDER BAYs	99.98
12	AVAILABILITY OF 59NOS. CAP. BA NKS	99.96
<b>TOTAL AVAILABILITY OF DTL SYSTEM =</b>		<b>99.03</b>

$$(98.33*16+99.66*10+98.67*89+99.34*64+98.86*37+96.04*3+99.71*24 +99.70*16 +99.90*138+99.90*158+99.98*205+99.96*59)$$

=99.03%

$$(16+10+89+64+37+3+24+16+138+158+205+59)$$

## 18. NEW ELEMENTS COMMISSIONED IN TRANSMISSION SYSTEM

The following transmission system elements added during the year 2015-16

S. N.	Name of the Element	Date and time of energization
1	220/33kV 100MVA TR. -II at Peeragarhi	Tr. charged on no load on 20.04.2015 at 20.24hrs. and load was taken on 22.04.2015 at 14.06hrs.
2	220/33kV 100MVA TR. -III at Peeragarhi	Tr. charged on no load on 21.04.2015 at 14.08hrs. and load was taken on 30.04.2015 at 10.55hrs.
3	220kV Mundka – Peeragarhi Ckt. -II (13.0KM)	Ckt. charged on no load on 15.04.2015 at 19.05hrs. and load was taken on 22.04.2015 at 14.06hrs.
4	LILO of 220kV Najafgarh – Khanjawala ckt. -I at Mundka	220kV Mundka – Najafgarh ckt. (8.6KM) charged on no load on 16.06.2015 at 19.35hrs. and load was taken on 17.06.2015 at 12.12hrs. 220kV Mundka – Khanjawala ckt. charged on no load on 16.06.2015 at 19.35hrs. (18.0KM)
5	Augmentation of 400/200kV 315MVA ICT with 400/220kV 500MVA ICT-II at Bamnauli	ICT charged on no load on 15.07.2015 at 13.38hrs. and load was taken on 17.07.2015 at 17.22hrs.
6	Augmentation of 400/200kV 315MVA ICT with 400/220kV 500MVA ICT-III at Bamnauli	ICT charged on no load on 16.08.2015 at 14.01hrs. and load was taken on 21.08.2015 at 13.25hrs.
7	220/66kV 160MVA TR. -II at Papankalan -II	Tr. charged on no load on 22.12.2015 at 19.00hrs. and load was taken on 23.12.2015 at 19.25hrs.
8	220kV Peeragarhi – Wazirpur Ckt. -I (8.3KM)	Ckt. charged on no load on 25.12.2015 at 18.46hrs. and load was taken on 18.01.2016 at 14.36hrs.
9	220kV Peeragarhi – Wazirpur Ckt. -II (8.3KM)	Ckt. charged on no load on 04.02.2016 at 18.04hrs. and load was taken on 06.02.2016 at 11.49hrs.
10	220/66kV 160MVA TR.-I at DSIDC Bawna	Tr. charged on no load on 04.01.2016 at 22.27hrs. and load was taken on 07.01.2016 at 15.49hrs.
11	220/66kV 160MVA TR.-I at Papankalan -I	Tr. charged on no load on 09.02.2016 at 19.04hrs. and load was taken on 11.02.2016 at 21.57hrs.
12	220/66kV 100MVA TR.-III at Sarita Vihar	Tr. charged on no load on 31.12.2015 at 16.40hrs. and load was taken on 02.01.2016 at 22.30hrs.
13	220kV Patparganj – Gazipur Ckt. (4.9KM)	Ckt. charged on no load on 31.03.2015 at 13.48hrs. and load was taken on 07.04.2015 at 11.35hrs.

In addition to above, Zebra conductor of 220kV lines have been augmented with HTLS conductor as details hereunder :-

S. N.	Name of the Element
1	220kV Wazirbad – Geeta Colony ckt. I at 08.07 hrs. on 15.05.2015 220kV Wazirbad – Geeta Colony ckt.II at 19.57 hrs. on 03.06.2015
2	220kV Bamnauli – Naraina Ckt. I energized at 19.07 hrs. on 09.03.2016 220kV Bamnauli – Naraina Ckt. II energized at 09.41 hrs. on 07.03.2016
3	220kV Pragati – Sarita Vihar ckt. I energized at 11.50 hrs. on 17.03.2016 220kV Pragati – Sarita Vihar ckt. I energized at 14.08 hrs. on 17.02.2016

## 19 TRIPPINGS / BREAK-DOWNS IN 400/220KV SYSTEM FOR THE YEAR 2015-16

### 19.1 DETAILS OF 400/220KV BREAKDOWN/TRIPPINGS OCCURRED IN DTL SYSTEM DURING THE MONTH APRIL 2015

S. N.	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME (HRS)		DATE	TIME (HRS)	
01	01/04/15	11:58	PARKSTREET 220/33KV 100MVA TX-II	01/04/15	13:05	TX TRIPPED ON 51C,86 AND 33KV I/C-1 TRIPPED ON INTER TRIPPING.
02	01/04/15	11:58	PARKSTREET 220/33 KV 100MVA TX-I	01/04/15	13:05	TX TRIPPED ON 30G,86 AND 33KV I/C-1 TRIPPED ON INTER TRIPPING.
03	02/04/15	2:51	MUNDKA 400/220KV 315MVA ICT-III	02/04/15	17:19	ICT TRIPPED ON OIL SURGE RELAY,86B.
04	02/04/15	9:50	PATPARGANJ 33/11KV, 16MVA TX	02/04/15	14:25	TX TRIPPED ON DIFFERENTIAL,86. R-PH LA OF 11KV I/C DAMAGED.
05	02/04/15	14:55	OKHLA 66/11KV, 20MVA TX-I	02/04/15	14:58	11KV I/C-1 TRIPPED WITHOUT INDICATION ALONG WIYH 11KV GIRI NAGAR CKT-1.
06	02/04/15	22:32	NARELA 66/33KV, 30MVA TX	02/04/15	23:40	33KV I/C TRIPPED ON O/C.
07	02/04/15	23:17	BAWANA 400/220KV 315MVA ICT-III	02/04/15	5:00	ICT TRIPPED ON 186A,175A,175C,86B-1,A/R
08	03/04/15	6:05	NARELA 66/33KV, 30MVA TX	03/04/15	12:25	33KV I/C TRIPPED ON O/C.
09	03/04/15	6:07	PARKSTREET 220/66 KV 100MVA TX-I	03/04/15	14:43	TX TRIPPED ON 64REF,86.
10	03/04/15	6:07	220KV PRAGATI - SARITA VIHAR CKT	03/04/15	12:08	AT SARITA VIHAR CKT TRIPPED ON D/P,Z- 1,A,B&C-PH DIST-1.752 KM. AT PRAGATI CKT TRIPPED ON D/P,Z-1,A,B&C-PH DIST-7.914 KM,186.
11	03/04/15	6:07	220KV SARITA VIHAR - BTPS CKT.-I	03/04/15	6:17	AT SARITA VIHAR CKT TRIPPED ON D/P, Y- PH, 95C, AUTO RECLOSE. NO TRIPPING AT BTPS.
12	04/04/15	1:20	220KV BAMNAULI- PAPPANKALAN-I CKT-I	04/04/15	1:30	AT PPK-1 CKT TRIPPED ON 86. NO TRIPPING AT BAMNAULI.
13	04/04/15	1:47	PARKSTREET 220/66KV 100MVA TX-II	04/04/15	18:00	TX TRIPPED ON E/F, HV64RHV, 86B. 66KV I/C- 2 TRIPPED ON INTER-TRIPPING.
14	04/04/15	2:01	400KV DADRI - HARSH VIHAR CKT. - II	04/04/15	3:01	AT HARSH VIHAR CKT TRIPPED ON 195CX,86,R,Y&B-PH.
15	04/04/15	4:50	220KV DSIDC BAWANA-NARELA CKT-I	04/04/15	6:32	AT NRL CKT TRIPPED ON 186. NO TRIPPING AT DSIDC BAWANA.
16	06/04/15	13:25	220KV ROHINI- SHALIMARBAGH CKT-II	06/04/15	18:55	AT SHALIMARBAGH CKT TRIPPED ON D/P,B&C-PH,186. NO TRIPPING AT ROHINI. TREE BRANCH FALL ON CKT NEAR TOWER NO-23.
17	08/04/15	9:32	220KV MEHRAULI - BTPS CKT. - II	08/04/15	14:40	AT MEHRAULI CKT TRIPPED ON D/P, Z-1, A,B&C-PH, DIST-1.698 KM. SPARKING OCCURED AT CB AND CT CLAMP. AT BTPS CKT TRIPPED ON D/P, Z-2, R-PH, DIST-16 KM.
18	09/04/15	19:11	220KV WAZIRABAD - MANDOLA CKT-IV	10/04/15	8:09	AT WAZIRABAD CKT TRIPPED ON D/P. AT MANDOLA CKT TRIPPED ON D/P,Z-1,DIST- 12KM.
19	09/04/15	19:11	220KV WAZIRABAD - MANDOLA CKT-I	09/04/15	19:41	AT WAZIRABAD CKT TRIPPED ON D/P, DIST- 5.1KM. NO TRIPPING AT MANDOLA.
20	11/04/15	9:55	220KV GAZIPUR - MAHARANIBAGH CKT. -II	11/04/15	14:52	CONDUCTOR OF 220KV MAHARANIBAGH- GAZIPUR CKT-2 SNAPPED NEAR KHICHARIPUR.
21	11/04/15	9:55	220KV GAZIPUR - MAHARANIBAGH CKT. -I	11/04/15	10:18	CKT TRIPPED WITHOUT INDICATION AT MAHARANIBAGH. NO TRIPPING AT GAZIPUR. CONDUCTOR OF 220KV MAHARANIBAGH-GAZIPUR CKT-2 SNAPPED NEAR KHICHARIPUR.
22	11/04/15	13:10	220KV GOPALPUR- MANDOLACKT-II	11/04/15	13:51	SPS OPERATED DUE TO TRIPPING OF ONE POLE OF HVDC RIHND-DADRI CKT.
23	11/04/15	13:10	220KV GOPALPUR- MANDOLACKT-I	11/04/15	13:51	SPS OPERATED DUE TO TRIPPING OF ONE POLE OF HVDC RIHND-DADRI CKT.

S. N.	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME (HRS)		DATE	TIME (HRS)	
24	13/04/15	17:00	220KV MEHRAULI - BTPS CKT. - II	13/04/15	17:32	AT MEHRAULI CKT TRIPPED ON D/P,Z-1,DIST-7.47KM. AT BTPS CKT TRIPPED ON B-PHD/P,Z-1,DIST-13.8KM.
25	15/04/15	13:35	220KV DIAL-MEHRAULI CKT-I	15/04/15	13:57	AT MEHRAULI CKT TRIPPED ON R,Y AND B-PH DIFFERENTIAL TRIP. NO TRIPPING AT DIAL. PROBLEM IN DIFFERENTIAL RELAY.
26	16/03/15	15:25	400KV BAMNAULI-JHATIKARA CKT-I	30/05/15	18:00	S/D WAS AVAILED ON CKT FOR REPLACING RELAY AT 400KV BAMNAULI. AFTER CLEARANCE CKT WAS CHARGED AT 19:43 HRS BUT CKT TRIPPED ON D/P,Z-1, A-PH,DIST-335 METER. CKT STRAIGHT THROUGH JOINT BURNT AND CABLE DAMAGED.
27	16/04/15	16:14	400KV BAWANA-MUNDKA CKT-II	16/04/15	17:00	AT BAWANA CKT TRIPPED ON 186 CARRIER PROTECTION. NO TRIPPING AT MUNDKA.
28	17/04/15	12:40	INDRAPRASTHA POWER 33KV NIZAMUDDIN CKT (BAY-13)	17/04/15	21:48	CKT TRIPPED ON O/C,Y & B-PH, Y-PH CT BURNT.
29	17/09/14	15:33	220KV GAZIPUR - BTPS CKT	30/06/15	18:00	AT BTPS CKT TRIPPED ON D/P,Z-1,Y-PH, DIST-10.2KMS.AT GAZIPUR CKT TRIPPED ON D/P,Z-1,Y-PH, DIST-9.69KMS. CABLE FAULTY BEING REPLACED BY TRANSMISSION COMPANY OF UP .
30	17/04/15	18:42	ELECTRIC LANE 220/33KV 100MVA TX-II	17/04/15	19:57	TX TRIPPED ON 295 SUPERVISION.
31	17/04/15	18:42	220KV MAHARANI BAGH- ELECTRIC LANE CKT-II	30/05/15	18:30	AT MAHARANI BAGH CKT TRIPPED ON FAULT LOOP B TO E. AT ELECTRIC LANE CKT TRIPPED ON D/P,Z-1,C-PH,186,LBB, BUS BAR PROTECTION. CABLE DAMAGED DURING EXCAVATION BY MTNL.
32	17/04/15	20:10	OKHLA 33KV TUGLAKABAD CKT	17/04/15	23:36	CKT TRIPPED ON D/P. PTW TAKEN BY S/STN MAINTENANCE TEAM TO ATTENED OIL LEAKAGE FROM R-PH CT.
33	18/04/15	19:36	GOPALPUR 33KV DIFR CKT	18/04/15	20:43	CKT MADE OFF AS SPARKING OBSERVED AT RELAY.
34	19/04/15	8:06	220KV KANJHAWALA-NAJAFGARH CKT-2	19/04/15	8:26	AT NJF CKT TRIPPED ON 186.86. Y-PH CT OF 220KV BUS COUPLER DAMAGED AT KANJHAWALA S/STN.
35	19/04/15	8:06	220KV KANJHAWALA-NAJAFGARH CKT	19/04/15	8:26	AT NJF CKT TRIPPED ON 186.86. Y-PH CT OF 220KV BUS COUPLER DAMAGED AT KANJHAWALA S/STN.
36	19/04/15	8:06	NAJAFGARH 220/66KV 100MVA TX-II	19/04/15	8:37	TX TRIPPED ON 86.
37	19/04/15	8:06	NAJAFGARH 220/66KV 100MVA TX-I	19/04/15	8:37	TX TRIPPED ON 86.
38	19/04/15	8:06	NAJAFGARH 220/66KV 100MVA TX-IV	19/04/15	8:42	TX TRIPPED ON 86.
39	19/04/15	11:52	220KV KANJHAWALA-NAJAFGARH CKT-2	19/04/15	12:14	AT KANJHAWALA CKT TRIPPED ON D/P,RY&B-PH. 220KV BUS COUPLER ALSO TRIPPED ON O/C. AT NJF CKT TRIPPED ON D/P,C-PH,DIST-5.789KM.
40	19/04/15	12:22	220KV KANJHAWALA-NAJAFGARH CKT-2	19/04/15	16:25	AT NJF CKT TRIPPED ON D/P,C-PH,DIST-8.336KM. AT KANJHAWALA CKT TRIPPED ON D/P,RY&B-PH. 220KV BUS COUPLER ALSO TRIPPED ON O/C.
41	19/04/15	12:35	220KV GAZIPUR - MAHARANIBAGH CKT. -II	19/04/15	13:38	AT MAHARANI BAGH CKT TRIPPED ON D/P,Z-2,AUTO RECLOSE. NO TRIPPING AT GAZIPUR.
42	19/04/15	12:35	GAZIPUR 220/66KV 160MVA TX-I	19/04/15	13:30	TX TRIPPED ON O/C,E/F,86 AND 66KV I/C TRIPPED ON 86.
43	19/04/15	13:07	220KV BAMNAULI-PAPPANKALAN-II CKT-I	19/04/15	13:52	AT BAMNAULI CKT TRIPPED ON D/P,B&C-PH. AT PPK-2 CKT TRIPPED ON 86.
44	19/04/15	13:24	220KV NARELA - MANDOLA CKT-I	19/04/15	14:11	AT NARELA CKT TRIPPED ON D/P,Z-1,A-PH,DIST-6.39KM. AT MANDOLA CKT TRIPPED ON D/P,R-PH,Z-3.

S. N.	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME (HRS)		DATE	TIME (HRS)	
45	19/04/15	14:21	220KV BAMNAULI-NAJAFGARH CKT-II	19/04/15	19:57	AT BAMNAULI CKT TRIPPED ON D/P,Z-2,C-PH,186A&B. AT NJF CKT TRIPPED ON D/P,Z-2,AB&C-PH,DIST-8.294KM.
46	19/04/15	23:53	220KV BAWANA - KANJHAWALA CKT	20/04/15	12:18	AT BAWANA CKT TRIPPED ON D/P,Z-1,DIST 9.05KM,A/R. NO TRIPPING AT KANJHAWALA. HOWEVER 220KV BUS COUPLER TRIPPED ON O/C,E/F AT KANJHAWALA.
47	19/04/15	23:53	220KV BAWANA - KANJHAWALA CKT-II	20/04/15	19:08	AT BAWANA CKT TRIPPED ON D/P,DIAT-8.49KM,A/R.NO TRIPPING AT KANJHAWALA. B-PH CT OF CKT DAMAGED AND 220KV BUS COUPLER TRIPPED ON O/C,E/F AT KANJHAWALA.
48	20/04/15	10:32	HARSH VIHAR 220/66KV 160MVA ICT-1	20/04/15	10:35	TX TRIPPED ON 86.
49	21/04/15	9:45	220KVB AWANA-ROHINI CKT-I	21/04/15	10:16	AT BAWANA CKT TRIPPED ON D/P,C-PH,47TF. AT ROHINI CKT TRIPPED ON D/P,C-PH.
50	21/04/15	9:55	GAZIPUR 220/66KV 160MVA TX-I	21/04/15	10:05	TX TRIPPED ON 86,INRUSH DIRECT RELAY. I/C TRIPPED ON INTER TRIPPING.
51	21/04/15	12:00	220KV BAMNAULI-NAJAFGARH CKT-I	21/04/15	12:07	AT NJF CKT TRIPPED ON 186. NO TRIPPING AT BAMNAULI.
52	22/04/15	0:20	220KV BAMNAULI-NAJAFGARH CKT-I	22/04/15	0:31	AT NJF CKT TRIPPED ON 186. NO TRIPPING AT BAMNAULI.
53	22/04/15	0:20	220KV BAMNAULI-NAJAFGARH CKT-II	22/04/15	0:31	AT NJF CKT TRIPPED ON 186. NO TRIPPING AT BAMNAULI.
54	22/04/15	8:20	TRAUMA CENTER 220/33KV 100MVA TX-I	22/04/15	10:17	TX TRIPPED ON DIFFERENTIAL PROTECTION 86 A&B.
55	22/04/15	14:16	220KV SHALIMAR BAGH-WAZIRPUR CKT-II	22/04/15	14:30	AT SMB CKT TRIPPED ON FOT. NO TRIPPING AT WAZIRPUR.
56	23/04/15	2:38	220KV BAMNAULI-NAJAFGARH CKT-II	23/04/15	19:40	AT NJF CKT TRIPPED ON 186. FLASH AT R-PH CT AND CAUGHT FIRE.
57	23/04/15	2:38	220KV BAMNAULI-NAJAFGARH CKT-I	23/04/15	4:16	AT NJF CKT TRIPPED ON 186. NO TRIPPING AT BAMNAULI.
58	23/04/15	16:46	220KV GAZIPUR-PATPARGANJ CKT	23/04/15	16:52	CKT TRIPPED AT PPG ON DIFFERENTIAL PROTECTION DURING TESTING OF RELAY. NO TRIPPING AT GAZIPUR.
59	24/04/15	13:30	220KV BAMNAULI-NAJAFGARH CKT-II	24/04/15	13:55	AT BAMNAULI CKT TRIPPED ON D/P,Z-2,B-PH,186A&B. AT NJF CKT TRIPPED ON D/P,Z-1,A-PH,DIST-6.4KM.
60	24/04/15	13:30	220KV BAMNAULI - DIAL CKT-I	24/04/15	13:47	AT BAMNAULI CKT TRIPPED ON D/P,C-PH,186A&B. NO TRIPPING AT DIAL.
61	25/04/15	1:50	INDRAPRASTHA 220/33KV 100MVA TX-I	25/04/15	15:45	TX TRIPPED ON REF LV SIDE.
62	28/04/15	10:40	VASANT KUNJ 20MVAR CAP. BANK-II	28/04/15	12:30	CAP BANK TRIPPED ON E/F,86.
63	29/04/15	2:35	INDRAPRASTHA POWER 220/33KV 100MVA TX-I	29/04/15	18:35	TX TRIPPED WITHOUT INDICATION.
64	29/04/15	2:35	220 KV PATPARGANJ - I.P. CKT-II	29/04/15	20:50	AT IP CKT TRIPPED WITHOUT INDICATION. NO TRIPPING AT PPG S/STN.
65	29/04/15	11:25	220KV GOPALPUR-MANDOLACKT-I	29/04/15	11:42	MAL-OPERATION OF SPS AT MANDOLA.
66	29/04/15	11:25	220KV GOPALPUR-MANDOLACKT-II	29/04/15	11:42	MAL-OPERATION OF SPS AT MANDOLA.
67	29/04/15	20:18	220KV GOPALPUR-SUBZI MANDI CKT-II	29/04/15	20:32	AT GOPALPUR CKT TRIPPED WITHOUT INDICATION. NO TRIPPING AT SUBZIMANDI.
68	29/04/15	21:08	220KV GOPALPUR-SUBZI MANDI CKT-II	29/04/15	21:36	AT GOPALPUR CKT TRIPPED WITHOUT INDICATION. NO TRIPPING AT SUBZIMANDI.
69	29/04/15	22:03	220KV GOPALPUR-SUBZI MANDI CKT-II	30/04/15	2:21	AT GOPALPUR CKT TRIPPED WITHOUT INDICATION.PROBLEM IN CB CONTROL WIRING. NO TRIPPING AT SUBZIMANDI.
70	30/04/15	11:35	SARITA VIHAR 66/11KV, 20MVA TX-II	30/04/15	12:00	TX TRIPPED ON E/F.

**19.2 DETAILS OF 400/220KV BREAKDOWN/TRIPPINGS OCCURRED IN DTL SYSTEM DURING THE MONTH MAY –2015**

S. N.	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
1	01/05/15	7:38	KANJHAWALA 66/11KV, 20MVA TX-II	1/5/15	8:38	11KV I/C-1 TRIPPED ON E/F.
2	02/05/15	11:19	220KV GOPALPUR- MANDOLACKT-II	2/5/15	15:05	AT GOPALPUR CKT TRIPPED ON D/P,Z- 1,DIST-2.2KM. AT MANDOLA CKT TRIPPED ON D/P,Z-1,B-PH,DIST-19.43KM.
3	04/05/15	10:52	NARAINA 33KV 10 MVAR CAP. BANK-II	6/5/15	14:50	CAP BANK TRIPPED ON NEUTRAL UNBALANCING.
4	04/05/15	13:23	220KV GOPALPUR- MANDOLACKT-I	4/5/15	14:45	AT GOPALPUR CKT TRIPPED ON D/P,Z-1,R,Y AND B-PHASE, DIST-9.5KM. AT MANDOLA CKT TRIPPED ON D/P,Z-1,DIST-16.98KM.
5	04/05/15	14:29	220KV BAMNAULI- PAPPANKALAN-II CKT-II	4/5/15	14:39	AT BAMNAULI CKT TRIPPED ON 186A&B. NO TRIPPING AT PPK-2 END.
6	04/05/15	20:32	220KV GOPALPUR- MANDOLACKT-I	4/5/15	22:07	CKT TRIPPED DUE TO OPERATION OF SPS AT MANDOLA DUE TO TRIPPING OF POLE-2 OF MUNDRA-MAHENDREA GARH CKT.
7	04/05/15	20:32	220KV GOPALPUR- MANDOLACKT-II	4/5/15	22:07	CKT TRIPPED DUE TO OPERATION OF SPS AT MANDOLA DUE TO TRIPPING OF POLE-2 OF MUNDRA-MAHENDREA GARH CKT.
8	05/05/15	0:55	220KV BAMNAULI- PAPPANKALAN-I CKT-I	5/5/15	0:57	AT PPK-1 CKT TRIPPED ON D/P. NO TRIPPING AT BAMNAULI.
9	05/05/15	1:27	220KV BAMNAULI- PAPPANKALAN-I CKT-I	5/5/15	1:33	AT PPK-1 CKT TRIPPED ON D/P,86A,B&C. NO TRIPPING AT BAMNAULI.
10	06/05/15	2:55	MASJID MOTH 33KV VSNL CKT	6/5/15	19:45	FLASH OCCUR ON CT OF CKT AND IT TRIPPED ON D/P,Z-1,A-G-PHASE, DIRECTIONAL OVER CURRENT.
11	06/05/15	11:20	220KV DIAL- MEHRAULI CKT-I	6/5/15	11:43	AT MEHRAULI CKT TRIPPED ON D/P,Z-1 DIST-5.919KM. AT DIAL CKT TRIPPED ON D/P,Z-2.
12	06/05/15	11:31	220KV DIAL- MEHRAULI CKT-II	6/5/15	11:43	AT MEHRAULI CKT TRIPPED ON D/P,Z-1, DIST-2.415KM,86A&B. AT DIAL CKT TRIPPED ON D/P,Z-2.
13	06/05/15	11:32	220KV MEHRAULI - BTPS CKT. - II	6/5/15	11:37	CKT MADE OFF DUE TO OVER LOADING OF 220KV BALLABHGARH -BTPS CKT-1&2 AS BOTH THE 220KV DIAL-MEHRAULI CKTS TRIPPED AT 11:20 HRS. AND 11:31 HRS RESPECTIVELY.
14	06/05/15	11:32	220KV MEHRAULI - BTPS CKT. - I	6/5/15	11:37	CKT MADE OFF DUE TO OVER LOADING OF 220KV BALLABHGARH -BTPS CKT-1&2 AS BOTH THE 220KV DIAL-MEHRAULI CKTS TRIPPED AT 11:20 HRS. AND 11:31 HRS RESPECTIVELY.
15	06/05/15	12:01	220KV DIAL- MEHRAULI CKT-I	6/5/15	17:43	AT MEHRAULI CKT TRIPPED ON D/P,Z- 1,DIST-616.4M. AT DIAL CKT TRIPPED ON D/P,Z-2.
16	06/05/15	23:28	220KV KANJHAWALA- NAJAFGARH CKT-2	7/5/15	0:25	AT NJF CKT TRIPPED ON D/P,Z-1,A&B- PH,186.
17	06/05/15	23:28	220KV KANJHAWALA- NAJAFGARH CKT	8/5/15	19:22	AT NJF CKT TRIPPED ON D/P,Z-1,A&B- PH,186. R-PH JUMPER SNAPPED.
18	06/05/15	23:28	220KV BAWANA - KANJHAWALA CKT-2	6/5/15	23:54	AT KANJHAWALA CKT TRIPPED ON D/P,RY&B-PH. NO TRIPPING AT BAWANA.

S. N.	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
19	06/05/15	23:28	220KV BAWANA - KANJHAWALA CKT	6/5/15	23:46	AT BAWANA CKT TRIPPED ON D/P,Z-1,O/C,E/F,186. NO TRIPPING AT KANJHAWALA.
20	07/05/15	13:04	220KV GOPALPUR-MANDOLACKT-I	7/5/15	13:56	AT GOPALPUR CKT TRIPPED ON RY&B-PH,DIST-10.2KM. AT MANDOLA CKT TRIPPED ON R-N-PH,DIST-13.73KM.
20	07/05/15	13:46	220KV PRAGATI - SARITA VIHAR CKT	7/5/15	14:14	AT SARITAVIHAR CKT TRIPPED ON AB&C-PH,A/R,186A&B. AT PRAGATI CKT TRIPPED ON D/P,Z-1,B-N-PH.
21	07/05/15	13:46	220KV SARITA VIHAR - BTPS CKT.-I	7/5/15	14:05	AT SARITA VIHAR CKT TRIPPED ON AUTO-RECLOSE LOCKOUT. NO TRIPPING AT BTPS.
22	07/05/15	14:21	GEETA COLONY 220/33KV 100MVA TX-I	7/5/15	14:25	33KV I/C-1 MADE OFF TO CONTROL OVER LOADING OF 220KV BTPS-BALLABHGARH CKT-2 AS 220KV BTPS-BALLABHGARH CKT-1 AND UNIT-2(95MW)TRIPPED AT 13:04HRS.
23	07/05/15	14:21	GEETA COLONY 220/33KV 100MVA TX-II	7/5/15	14:48	33KV I/C-1 MADE OFF TO CONTROL OVER LOADING OF 220KV BTPS-BALLABHGARH CKT-2 AS 220KV BTPS-BALLABHGARH CKT-1 AND UNIT-2(95MW)TRIPPED AT 13:04HRS.
24	07/05/15	16:32	220KV KANJHAWALA-NAJAFGARH CKT-2	7/5/15	18:19	AT KANJHAWALA CKT TRIPPED ON D/P,Z-2,RY&B-PH. AT NJF CKT TRIPPED ON D/P.
25	07/05/15	16:32	220KV BAWANA - KANJHAWALA CKT-2	8/5/15	18:22	AT BWN CKT TRIPPED ON D/P,Z-1,A-PH,DIST-0.15KM. TOP PHASE CONDUCTOR SNAPPED AT GANTARY. AT KANJHAWALA CKT TRIPPED ON D/P,Z-2,RY&B-PH.
26	11/05/15	0:22	220KV BAMNAULI - DIAL CKT-I	11/5/15	10:33	AT BAMNAULI CKT TRIPPED WITHOUT INDICATION. NO TRIPPING AT BAMNAULI.
27	11/05/15	19:25	INDRAPRASHTHA POWER 220/33KV 100MVA TX-II	11/5/15	20:00	33KV I/C-2 OF TX TRIPPED WITHOUT INDICATION.
28	11/05/15	19:25	INDRAPRASHTHA POWER 220/33KV 100MVA TX-I	11/5/15	20:00	TX TRIPPED ON R-PH,O/C.
29	11/05/15	19:26	GEETA COLONY 220/33KV 100MVA TX-II	11/5/15	19:36	33KV I/C-2 OF TX TRIPPED ON SPS.
30	11/05/15	20:23	220KV BAMNAULI-PAPPANKALAN-II CKT-I	11/5/15	20:43	AT BAMNAULI CKT TRIPPED ON D/P,Z-1,C-PH. NO TRIPPING AT PPK-2.
31	11/05/15	20:23	220KV BAMNAULI-PAPPANKALAN-II CKT-II	12/5/15	15:04	AT BAMNAULI CKT TRIPPED ON D/P,Z-1,A-PH. NO TRIPPING AT PPK-2. R-PH JUMPER SNAPPED AT TOWER NO-4.
32	11/05/15	20:54	220KV PRAGATI - SARITA VIHAR CKT	11/5/15	21:36	AT PRAGATI CKT TRIPPED ON D/P,Z-1,DIST-7.86KM,186. AT SARITA VIHAR CKT TRIPPED ON D/P,Z-1,DIST-1.73KM,186A&B.
33	11/05/15	20:54	220KV SARITA VIHAR - BTPS CKT.-I	11/5/15	21:42	AT SARITA VIHAR CKT TRIPPED ON D/P,Y-PH,186A&B. AT BTPS CKT TRIPPED ON D/P,DIST-4.8KM,Y-PH,E/F.
34	13/05/15	11:30	MUNDKA 220/66KV 160MVA TX-III	13/5/15	12:20	66KV I/C-3 MADE OFF DUE TO FIRE IN GRASS.
35	13/05/15	11:51	220KVBAWANA-ROHINI CKT-II	13/5/15	14:09	AT BAWANA CKT TRIPPED ON B-PH,D/P,A/R. AT ROHINI-2 CKT TRIPPED ON D/P,Z-1,SOTF. NO TRIPPING AT ROHINI.
36	13/05/15	12:03	220KV NARELA - MANDOLA CKT-I	13/5/15	13:53	AT NARELA CKT TRIPPED ON D/P,R-PH,86. AT MANDOLA CKT TRIPPED ON D/P,R-PH,186A&B.
37	13/05/15	12:24	220KV SARITA VIHAR - BTPS CKT.-I	13/5/15	12:44	AT SARITA VIHAR CKT TRIPPED ON Y-PH,A/R LOCK OUT, 186A&B. NO TRIPPING AT BTPS BUT Y-PH E/F RELAY APPEARED ON CKT.
38	13/05/15	12:24	220KV PRAGATI - SARITA VIHAR CKT	13/5/15	13:00	AT SARITA VIHAR CKT TRIPPED ON D/P,Z-1,DIST-1.735KM, AB&C-PH,A/R LOCK OUT,186. AT PRAGATI CKT TRIPPED ON D/P,Z-1,DIST-7.9KM,B-PH.

S. N.	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
39	15/05/15	13:31	NARELA 66/33KV, 30MVA TX	15/5/15	18:52	TX TRIPPED ON E/F.
40	16/05/15	11:20	220KV BAMNAULI - DIAL CKT-I	16/5/15	16:51	AT BANNAULI CKT TRIPPED ON E/F,DIST- 11.2 KM. AT DIAL CKT TRIPPED D/P,Z-1,R- PH.
41	16/05/15	11:20	220KV DIAL- MEHRAULI CKT-II	16/5/15	17:05	AT MEHRAULI CKT TRIPPED ON 186. NO TRIPPING AT DIAL.
42	16/05/15	23:38	NAJAFGARH 66/11KV, 20MVA TX-I	17/5/15	10:15	TX TRIPPED ON 30E BUCHHOLZ,86.
43	18/05/15	11:43	PATPARGANJ 220/66KV 100MVA TX- II	18/5/15	12:10	TX TRIPPED ON E/F. BIRDAGE OCCURED ON 66KV BUS-2.
44	19/05/15	14:28	220KV BAMNAULI- PAPPANKALAN-I CKT-I	19/5/15	20:45	AT PPK-1 CKT TRIPPED ON D/P,86AB&C. AT BAMNAULI CKT TRIPPED ON D/P,B&C- PH,186A&B. JUMPER OF THE CKT DAMAGED AT TOWER NO-47 AND 48.
45	19/05/15	14:33	220KV SARITA VIHAR - BTPS CKT.-I	19/5/15	14:45	AT SARITA VIHAR CKT TRIPPED ON D/P,Y- PH, 95C, 186A&B, A/R LOCKOUT. NO TRIPPING AT BTPS.
46	19/05/15	14:33	220KV PRAGATI - SARITA VIHAR CKT	19/5/15	19:25	AT PRAGATI CKT TRIPPED ON D/P,Z- 1,AB&C-PH,DIST-7.895KM. AT SARITA VIHAR CKT TRIPPED ON D/P,AB&C- PH,DIST-1.738KM,A/R LOCKOUT.
47	19/05/15	15:30	220KV GAZIPUR - MAHARANIBAGH CKT. -I	19/5/15	16:25	AT MAHARANI BAGH CKT TRIPPED ON MAIN-2, B-PH E/F. NO TRIPPING AT GAZIPUR.
48	19/05/15	15:50	220KV GAZIPUR - MAHARANIBAGH CKT. -II	19/5/15	23:20	Y-PH VOLTAGE OF CKT MISSING AT GAZIPUR. CKT MADE OFF AS Y-PH JUMPER SNAPPED AT TOWER NO-9.
49	19/05/15	17:47	220KV BAWANA- ROHINI CKT-II	19/5/15	23:29	AT BAWANA CKT TRIPPED ON DP,Z-1,C- PH,186. NO TRIPPING AT ROHINI. HOWEVER CKT TRIPPED AT ROHINI-2 ON D/P,Z-1 & 2,SOTF.
50	20/05/15	5:48	OKHLA 220/33KV 100MVA TX-IV	20/5/15	5:53	33KV I/C-4 TRIPPED ON 86LV.
51	21/05/15	6:05	400KV BAMNAULI- JHATIKARA CKT-II	21/5/15	7:19	AT BAMNAULI CKT TRIPPED ON 85LO CARRIER LOCK ,186A&B. NO TRIPPING AT OTHER END.
52	21/05/15	12:25	220KV NARELA - MANDOLA CKT-I	21/5/15	15:05	AT MANDOLA CKT TRIPPED ON R-G E/F,Z-3. AT NARELA CKT WAS IN OFF POSITION ON THE ADVISE OF SLDC.
53	21/05/15	14:43	400KV BAWANA- MUNDKA CKT-I	21/5/15	15:12	AT MUNDKA CKT TRIPPED ON 186,286. NO TRIPPING AT BAWANA.
54	21/05/15	14:43	400KV BAWANA- MUNDKA CKT-II	21/5/15	15:12	AT MUNDKA CKT TRIPPED ON 186,286. NO TRIPPING AT BAWANA.
55	21/05/15	14:43	220KV BAWANA- ROHINI CKT-II	21/5/15	14:56	AT ROHINI-2 CKT TRIPPED ON R-PH POLE DISCREPANCY. NO TRIPPING AT BAWANA.
56	21/05/15	15:17	220KV NARELA - MANDOLA CKT-I	21/5/15	15:56	AT MANDOLA CKT TRIPPED ON R-PH,Z-1. AT NARELA CKT WAS IN OFF POSITION ON THE ADVISE OF SLDC.
57	22/05/15	15:03	220KV MAHARANIBAGH - TRAUMA CENTER CKT-II	22/5/15	15:04	AT M BAGH CKT TRIPPED WITHOUT INDICATION. AT TRAUMA CENTER ALSO CKT TRIPPED WITHOUT INDICATION.
58	22/05/15	15:12	220KV GAZIPUR - MAHARANIBAGH CKT. -II	22/5/15	15:40	AT MAHARANI BAGH CKT. TRIPPED ON DIST. PROT, ZONE-3 AT GAZIPUR NO TRIPPING
59	22/05/15	15:12	220KV GAZIPUR - MAHARANIBAGH CKT. -I	22/5/15	22:30	AT M BAGH CKT TRIPPED ON D/P,Z-1. AT GZP CKT TRIPPED ON D/P,Z-1,Y-PH,E/F. Y- PH JUMPER SNAPPED AT TOWER NO-36
60	22/05/15	17:02	220KV GOPALPUR- MANDOLACKT-II	22/5/15	18:35	AT MANDOLA CKT TRIPPED ON SPS. NO TRIPPING AT MANDOLA. 400/220KV ICT-2 ALSO TRIPPED ON PRV AT MANDOLA.
61	22/05/15	17:02	220KV GOPALPUR- MANDOLACKT-I	22/5/15	18:35	AT MANDOLA CKT TRIPPED ON SPS. NO TRIPPING AT MANDOLA. 400/220KV ICT-2 ALSO TRIPPED ON PRV AT MANDOLA.

S. N.	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
62	23/05/15	13:17	BAMNAULI 400/220KV 315MVA ICT-II	23/5/15	14:22	220KV I/C-2 TRIPPED ON BACKUP PROTECTION FUSE FAILURE, 297 FUSE FAILURE
63	23/05/15	13:34	220KV BAWANA-DSIDC BAWANA CKT-I	23/5/15	15:08	AT BAWANA CKT TRIPPED ON D/P,A-PH,Z-1,DIST-0.71KM. AT DSIDC CKT TRIPPED ON D/P,A-PH,MAIN-1 & 2.
64	23/05/15	13:37	220KV BAWANA - KANJHAWALA CKT	23/5/15	13:38	AT KANJHAWALA CKT TRIPPED ON GEN-RY&B-PH. NO TRIPPING AT BAWANA.
65	23/05/15	14:45	220KV MEHRAULI - VASANT KUNJ CKT.-I	23/5/15	14:55	AT MEHRAULI CKT TRIPPED ON D/P,AB&C-PH,86. NO TRIPPING AT VASANT KUNJ.
66	23/05/15	19:46	KANJHAWALA 66/11KV, 20MVA TX-I	23/5/15	19:50	11KV I/C-1 TRIPPED ON HIGH SPEED TRIP RELAY INDICATION.
67	24/05/15	9:40	BAWANA 400/220KV 315MVA ICT-III	24/5/15	10:54	ICT TRIPPED ON 86B1, GROUP1 95A1,95B1,30F. 220KV I/C-3 TRIPPED ON CB AUTO TRIP.
68	24/05/15	11:42	220KV MEHRAULI - BTPS CKT. - II	24/5/15	12:29	AT MEHRAULI CKT TRIPPED ON D/P,Z-1,DIST-13.05KM. AT BTPS TRIPPED ON D/P,Z-1,R-PH,DIST-5.8KM.
69	24/05/15	14:42	220KV KANJHAWALA-NAJAFGARH CKT-2	24/5/15	15:32	AT NJF CKT TRIPPED ON D/P,Z-1,DIST-1.890KM. NO TRIPPING AT KANJHAWALA.
70	24/05/15	14:42	220KV BAWANA - KANJHAWALA CKT	24/5/15	15:14	AT BAWANA CKT TRIPPED ON D/P,AUTO TRIP LOCK OUT,86, DIST-15.97KM. NO TRIPPING AT KANJHAWALA. HOWEVER AT KANJHAWALA 220KV BUS COUPLER TRIPPED ON O/C,E/F.
71	24/05/15	14:55	KANJHAWALA 220/66KV 100MVA TX-II	24/5/15	15:10	66KV I/C-2 TRIPPED ON BACK UP PROTECTION.
72	25/05/15	0:18	GAZIPUR 220/66KV 100MVA TX-I	25/5/15	11:25	TX MADE OFF FOR MAINTAINING GAS PRESSURE AS GAS PRESSURE OF CB WAS NIL.
73	25/05/15	12:00	BAWANA 400/220KV 315MVA ICT-III	25/5/15	17:06	ICT TRIPPED ON MAIN CB AUTO TRIP, GROUP1/2, TRIP RELAY CKT FAULTY, 86B1,30H. 220KV I/C-3 TRIPPED ON AUTO TRIP.
74	25/05/15	14:15	220KV NARELA - MANDOLA CKT-II	25/5/15	15:30	AT MANDOLA CKT TRIPPED ON D/P,B-PH,Z-1. AT NARELA CKT WAS IN OFF POSITION ON THE ADVISE OF SLDC.
75	25/05/15	16:12	220KV ROHINI-SHALIMARBAGH CKT-II	25/5/15	16:38	AT SMB CKT TRIPPED ON D/P,B&C-PH,186. AT ROHINI CKT WAS IN OFF POSITION ON THE ADVISE OF SLDC.
76	25/05/15	18:50	NAJAFGARH 66/11KV, 20MVA TX-I	25/5/15	19:05	TX TRIPPED ON 86.
77	27/05/15	11:30	220KV GOPALPUR-MANDOLACKT-I	27/5/15	11:55	SPS OPERATED AT MANDOLA DUE TO TRIPPING OF 2ND POLE OF HVDC MUNDRA-MAHENDRA GARH CKT.
78	27/05/15	11:30	220KV GOPALPUR-MANDOLACKT-II	27/5/15	11:55	SPS OPERATED AT MANDOLA DUE TO TRIPPING OF 2ND POLE OF HVDC MUNDRA-MAHENDRA GARH CKT.
79	27/05/15	11:55	220KV GOPALPUR-SUBZI MANDI CKT-I	27/5/15	12:20	PROBLEM IN CB AT SUBZI MANDI.
80	27/05/15	22:05	220KV BAMNAULI-PAPPANKALAN-I CKT-I	27/5/15	22:11	AT PPK-1 CKT TRIPPED ON 186 A&B. NO TRIPPING AT BAMNAULI.
81	27/05/15	22:05	220KV BAMNAULI-PAPPANKALAN-I CKT-II	27/5/15	22:11	AT PPK-1 CKT TRIPPED ON 67C. NO TRIPPING AT BAMNAULI.
82	27/05/15	22:11	PAPPANKALAN-I 220/66KV 100MVA TX-III	27/5/15	22:35	TX TRIPPED ON CB AUTO TRIP, 86 A&B.
83	28/05/15	1:38	220KV BAMNAULI-PAPPANKALAN-I CKT-II	28/5/15	1:44	AT PPK-1 CKT TRIPPED ON 186 A&B. NO TRIPPING AT BAMNAULI.
84	28/05/15	1:38	220KV BAMNAULI-PAPPANKALAN-I CKT-I	28/5/15	1:44	AT PPK-1 CKT TRIPPED ON 86 A&B. NO TRIPPING AT BAMNAULI.
85	28/05/15	1:55	220KV BAMNAULI-PAPPANKALAN-I CKT-I	28/5/15	2:32	AT PPK-1 CKT TRIPPED ON 186 A&B. NO TRIPPING AT BAMNAULI.

S. N.	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
86	28/05/15	4:35	PARKSTREET 220/66 KV 100MVA TX-II	28/5/15	4:58	TX TRIPPED ON 86A,99TT AND 80DC-1.
87	28/05/15	4:35	PARKSTREET 220/66KV 100MVA TX-I	28/5/15	5:25	TX TRIPPED ON 86A,99TT AND 80DC-1.
88	28/05/15	4:35	220KV SARITA VIHAR - BTPS CKT.-I	28/5/15	4:55	AT SARITA VIHAR CKT TRIPPED ON Y AND B-PH AUTO RE-CLOSE 186 A&B.
89	28/05/15	4:35	220KV SARITA VIHAR - BTPS CKT.-II	28/5/15	16:20	AT BTPS CKT TRIPPED ON D/P,Z-1,E/F,Y&B-PH. NO TRIPPING AT SARITA VIHAR. SPARKING REPORTED AT TOWER NO-1 OUTSIDE BTPS YARD.
90	28/05/15	7:50	DIAL 220/66KV 160MVA TX-I	28/5/15	16:50	TX TRIPPED ON DIFFERENTIAL, 86A&B. B-PH CT OF LOCAL TX DAMAGED.
91	28/05/15	16:08	220KV BAMNAULI-PAPPANKALAN-I CKT-I	28/5/15	16:14	AT PPK-1 CKT TRIPPED ON 186 A&B. NO TRIPPING AT BAMNAULI.
92	28/05/15	16:30	220KV BAMNAULI-PAPPANKALAN-I CKT-I	28/5/15	16:32	AT PPK-1 CKT TRIPPED ON 186 A&B. NO TRIPPING AT BAMNAULI.
93	30/05/15	11:59	220KV SARITA VIHAR - BTPS CKT.-II	30/5/15	12:01	AT SARITA VIHAR CKT TRIPPED WITHOUT INDICATION. NO TRIPPING AT BTPS.
94	30/05/15	17:08	220KV GOPALPUR-MANDOLACKT-I	30/5/15	18:32	AT GOPALPUR CKT TRIPPED ON D/P, RY&B-PH, DIST-6.3KM. AT MANDOLA CKT TRIPPED ON D/P, Z-2, DIST-20.95KM.
95	31/05/15	6:15	PAPPANKALAN-I 220/66KV 100MVA TX-IV	31/5/15	6:38	TX TRIPPED ON DIFFERENTIAL PROTECTION.

### 19.3 DETAILS OF 400/220KV BREAKDOWN/TRIPPINGS OCCURRED IN DTL SYSTEM DURING THE MONTH JUNE – 2015

SLN O	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
01	01/06/2015	10:25	WAZIRABAD 220/66 KV 100MVA TX-II	01/06/2015	10:31	S/D OF TX FOR REPLACING ENERGY METER.
02	01/06/2015	10:45	BAWANA 400/220KV 315MVA ICT-I	01/06/2015	12:35	S/D OF ICT BY PGCIL.
03	01/06/2015	11:25	OKHLA 33KV ALAKNANDA CKT-I	01/06/2015	12:35	S/D OF CKT TO ATTEND EARTHING.
04	02/06/2015	11:10	WAZIRABAD 220/6 6KV 100MVA TX-III	02/06/2015	11:26	S/D OF TX FOR INSTALLATION OF ENERGY METER.
05	02/06/2015	11:42	WAZIRABAD 220/66 KV 160MVA TX-I	02/06/2015	12:15	S/D OF TX FOR INSTALLATION OF ENERGY METER.
06	02/06/2015	11:45	OKHLA 33KV 10MVAR CAP. BANK	02/06/2015	15:30	S/D OF CAP BANK FOR GENERAL MAINTENANCE.
07	02/06/2015	12:45	WAZIRABAD 220/66 KV 160MVA TX-I	02/06/2015	13:15	S/D OF TX FOR CHECKING CT WIRING OF METERING EQUIPMENT.
08	03/06/2015	7:15	PARKSTREET 220/33 KV 100MVA TX-I	03/06/2015	9:22	S/D OF TX TO ATTEND OIL LEAKAGE FROM R-PH CT.
09	03/06/2015	7:20	PAPPANKALAN-I 220/66KV 100MVA TX-IV	03/06/2015	12:53	S/D OF TX FOR REPLACING O/C RELAY.
10	03/06/2015	19:55	OKHLA 33KV BALAJI CKT-I	03/06/2015	23:34	CKT MADE OFF TO ATTEND Y-PH LINE ISOLATOR JAW.
11	04/06/2015	10:05	PATPARGANJ 220/66 KV 100MVA TX-I	04/06/2015	11:11	S/D OF TX FOR REMOVING STRAY WIRE.
23	05/06/2015	16:30	ROHINI 66KV 20MVAR CAP. BANK-II	05/06/2015	15:55	S/D OF CAP BANK FOR GENERAL MAINTENANCE.
24	06/06/2015	6:20	WAZIRABAD 220/66 KV 160MVA TX-I	06/06/2015	18:40	S/D OF TX FOR REPLACING HV SIDE CT.
25	06/06/2015	6:20	SARITA VIHAR 220/66KV 100MVA TX-I	06/06/2015	9:22	S/D OF TX TO ATTEND OIL LEAKAGE FROM BUSHING.
26	06/06/2015	6:25	GAZIPUR 220/66KV 160MVA TX-I	06/06/2015	13:50	S/D OF TX FOR REPLACING HV SIDE CT.
27	06/06/2015	7:28	PARKSTREET 220/66KV 100MVA TX-I	06/06/2015	9:40	S/D OF TX TO ATTEND OIL LEAKAGE FROM BUSHING.

SLN O	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
28	06/06/2015	7:35	RIDGE VALLEY 220/66 KV 160MVA TX-I	06/06/2015	10:42	S/D OF TX FOR TAN DELTA TEST.
29	06/06/2015	10:20	INDRAPRASTHA POWER 220/33KV 100MVA TX-III	06/06/2015	15:20	S/D OF TX FOR CRM TEST OF CB.
30	06/06/2015	11:05	LODHI RD 33/11KV, 16MVA TX-III	06/06/2015	14:25	TX ALONG WITH 11KV 1/2 BUS REMAINED OFF AS ACCURACY TEST WAS PERFORMED AT LT TX I.E. 100KVA TX.
31	06/06/2015	13:15	NAJAFGARH 66KV PASCHIM VIHAR CKT-I (BODHELA-II CKT-I)	06/06/2015	15:40	S/D OF CKT TO ATTEND HOT POINT AT R-PH BUS-1 COMMON JUMPER.
32	06/06/2015	14:05	VASANT KUNJ 220/66 KV 160MVA TX-I	06/06/2015	15:22	S/D OF TX TO ATTEND HOT POINT AT B-PH BUSHING CLAMP.
33	06/06/2015	14:40	ROHINI 11KV 6MVAR CAP. BANK	06/06/2015	17:50	S/D OF CAP BANK FOR GENERAL MAINTENANCE.
34	06/06/2015	16:00	MEHRAULI 220/66KV 100MVA TX-III	06/06/2015	17:29	S/D OF TX FOR ATTENDING HOT POINT AT LV SIDE BUSHING CLAMP.
35	07/06/2015	6:55	WAZIRABAD 66KV SHASTRI PARK CKT-II	07/06/2015	14:01	S/D OF CKT TO ATTEND HOT POINT AT Y-PH CT CLAMP.
36	07/06/2015	7:45	LODHI RD 220/33KV 100MVA TX-I	07/06/2015	10:30	S/D OF TX TO ATTEND HOT POINT AT B-PH BUSHING HV SIDE AND Y-PH LINE ISOLATOR CLAMP.
37	07/06/2015	8:23	OKHLA 220/66KV 100MVA TX-II	07/06/2015	13:45	S/D OF TX FOR LAYING CABLE FOR REF RELAY.
38	07/06/2015	8:23	OKHLA 66KV OKHLA PHASE-I CKT-II	07/06/2015	12:58	S/D OF CKT ALONG WITH 66KV BUS-2 FOR REPLACING BUS ISOLATOR BLADE.
39	07/06/2015	8:43	GOPALPUR 33KV 10 MVAR CAP. BANK-III	07/06/2015	9:50	S/D OF CAP BANK TO ATTEND HOT POINT.
40	07/06/2015	9:40	PATPARGANJ 33KV GEETA COLONY CKT	07/06/2015	10:08	S/D OF CKT TO ATTEND HOT POINT AT Y-PH CB TOP CLAMP.
41	07/06/2015	11:30	VASANT KUNJ 66KV VASANT KUNJ D-II CKT	07/06/2015	16:40	S/D OF CKT FOR CRM TEST OF CB.
42	08/06/2015	6:50	INDRAPRASTHA POWER 220/33KV 100MVA TX-III	08/06/2015	14:30	S/D OF TX FOR REPLACEMENT OF CT.
43	08/06/2015	10:25	PAPPANKALAN-I 66KV 20MVAR CAP. BANK	08/06/2015	11:50	S/D OF CAP BANK FOR GENERAL MAINTENANCE.
44	08/06/2015	15:52	ROHINI 66KV 20MVAR CAP. BANK-II	08/06/2015	18:02	S/D OF CAP BANK FOR TO CHANGE NEUTRAL UNBALANCE RELAY.
45	09/06/2015	7:55	PARKSTREET 33KV HANUMAN ROAD	09/06/2015	11:48	S/D OF CKT FOR REPLACING B-PH BUS-1 POST INSULATOR.
46	09/06/2015	8:00	PARKSTREET 220/33KV 100MVA TX-I	09/06/2015	11:48	S/D OF TX ALONG WITH 33KV BUS-1 AND 33KV I/C FOR TAN DELTA TEST AND TO ATTEND HOT POINT AT Y&B-PH ISOLATORS CLAMP.
47	09/06/2015	8:51	PEERA GARHI 220/33KV 100MVA TX-III	09/06/2015	9:41	S/D OF TX FOR GENERAL MAINTENANCE.
48	09/06/2015	9:45	GAZIPUR 66KV 20 MVAR CAP. BANK-II	09/06/2015	11:05	S/D OF CAP BANK TO ATTEND HOT POINT.
49	09/06/2015	18:40	INDRAPRASTHA POWER 220/33KV 100MVA TX-I	09/06/2015	19:55	S/D OF TX TO ATTEND PARKING PROBLEM AT Y-PH LV BUSHING.
50	10/06/2015	5:05	INDRAPRASTHA POWER 220/33KV 100MVA TX-II	10/06/2015	11:00	S/D OF TX ALONG WITH 33KV BUS-1 TO ATTEND HOT POINT AND REPLACING BUS ISOLATOR.
51	10/06/2015	6:50	PAPPANKALAN-I 66KV 20MVAR CAP. BANK	10/06/2015	11:55	S/D OF CAP BANK FOR BALANCING OF CELL.
52	10/06/2015	6:50	OKHLA 220/33KV 100MVA TX-IV	10/06/2015	8:40	S/D OF TX FOR ATTENDING HOT POINT AND REPLACING JUMPER.

SLN O	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
53	10/06/2015	10:05	KANJHAWALA 220/ 66KV 100MVA TX-II	10/06/2015	10:10	66KV I/C-2 TRIPPED ON 51N,86.
54	10/06/2015	14:55	BAWANA 400/220KV 315MVA ICT-II	10/06/2015	17:49	S/D OF ICT TO ATTEND OIL LEAKAGE.
55	11/06/2015	6:55	OKHLA 33KV OKHLA CKT-I	11/06/2015	8:35	S/D OF CKT FOR REPLACING T&C SWITCH.
56	11/06/2015	7:30	PARKSTREET 220 /66KV 100MVA TX-II	11/06/2015	8:30	S/D OF TX TO ATTEND HOT POINT AT B-PH CB TOP CLAMP.
57	11/06/2015	11:25	PEERA GARHI 33KV MADI PUR CKT-I	11/06/2015	14:15	S/D OF CKT TO ATTENDING AUX PANEL.
58	11/06/2015	11:30	PEERA GARHI 33KV A-4 PASCHIM VIHAR CKT-I	11/06/2015	12:55	S/D OF CKT TO ATTENDING AUX PANEL.
59	11/06/2015	12:20	PEERA GARHI 33KV PASCHIM PURI CKT-II	11/06/2015	15:03	S/D OF CKT TO ATTENDING AUX PANEL.
60	13/06/2015	6:05	BAMNAULI 400/220KV 315MVA ICT-IV	13/06/2015	10:06	SHUTDOWN TO ATTEND HOT POINT
61	13/06/2015	7:11	GOPALPUR 33KV CIVIL LINE CKT-I	13/06/2015	10:20	SHUTDOWN FOR ATTENDING HOT POINT
62	13/06/2015	7:35	PATPARGANJ 33KV CBD SHAHDARA CKT	13/06/2015	8:20	SHUTDOWN FOR ATTENDING HOT POINT
63	13/06/2015	8:15	PARKSTREET 33KV NIRMAN BHAWAN	13/06/2015	11:20	SHUTDOWN FOR GEN. MTC.
64	13/06/2015	9:40	PRAGATI 220/66KV 160MVA TX-II	13/06/2015	10:40	SHUTDOWN FOR ATTENDING HOT POINT ON R PHASE BUS SIDE CT CLAMP
65	13/06/2015	9:40	VASANT KUNJ 66/11KV, 20MVA TX-II	13/06/2015	13:25	SHUTDOWN FOR OIL TOP UP
66	13/06/2015	10:42	NARAINA 220/33KV 100MVA TX-I	13/06/2015	13:17	SHUTDOWN FOR ATTENDING HOT POINT ON LV BUSHING R PHASE TOP CLAMP
67	13/06/2015	13:48	NARAINA 220/33KV 100MVA TX-III	13/06/2015	17:17	SHUTDOWN FOR ATTENDING HOT POINT ON R PHASE LV BUSHING
68	13/06/2015	15:10	GEETA COLONY 220/33KV 100MVA TX-I	13/06/2015	15:35	33KV I/C PUT TO AVOID OVERLOADING OF WAZIRABAD CKTS.
69	13/06/2015	15:10	GEETA COLONY 220/33KV 100MVA TX-II	13/06/2015	15:35	33KV PUT OFF TO AVOID OVERLOADING OF WAZIRABAD CKT.
70	14/06/2015	7:10	OKHLA 220/33KV 100MVA TX-III	14/06/2015	9:24	SHUTDOWN OF TR. WITH I/C TO ATTEND HOT POINT ON LV AND HV BUSHING
71	14/06/2015	7:45	PARKSTREET 33KV BAIRD ROAD CKT-I	14/06/2015	11:15	SHUTDOWN OF CKT. TO ATTEND HOT POINT ON TOP CLAMP OF B PHASE
72	14/06/2015	8:50	OKHLA 220/33KV 100MVA TX-III	14/06/2015	10:15	SHUTDOWN OF TR. ALONGWITH I/C TO ATTEND HOT POINT
73	14/06/2015	10:50	SARITA VIHAR 66KV MATHURA ROAD CKT-II	14/06/2015	13:25	SHUTDOWN OF CKT. WITH 66KV BUS -II FOR BLADE REPLACEMENT
74	14/06/2015	11:20	MEHRAULI 66KV 20MVAR CAP. BANK-III	14/06/2015	17:05	SHUTDOWN FOR BALANCING CELLS
75	14/06/2015	12:50	OKHLA 33KV NEHRU PLACE CKT-IV	14/06/2015	15:20	SHUTDOWN FOR CONNECTING SECOND CKT.
76	14/06/2015	13:15	MEHRAULI 66KV IOC CKT	14/06/2015	14:24	SHUTDOWN OF CKT. CHANGING RELAY
77	14/06/2015	15:00	NARAINA 220/33KV 100MVA TX-II	14/06/2015	18:32	SHUTDOWN FOR GEN. MTC. WITH I/C-II
78	15/06/2015	13:20	OKHLA 33KV NEHRU PLACE CKT-I	15/06/2015	18:15	SHUTDOWN FOR GEN. MTC.
79	16/06/2015	6:10	BAMNAULI 400/220KV 315MVA ICT-II	16/06/2015	10:42	SHUTDOWN FOR MTC. AND TO ATTEND HOT POINT ON B PHASE BUCHZ LV
80	16/06/2015	6:45	ROHINI-II 220/66KV 160MVA TX-II	16/06/2015	11:25	SHUTDOWN FOR REPLACING CT OF B PHASE
81	16/06/2015	9:45	HARSH VIHAR 400/220KV 315MVA ICT-I	16/06/2015	20:16	SHUTDOWN FOR TAN DELTA TESTING

SLN O	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
82	16/06/2015	11:30	OKHLA 33KV NEHRU PLACE CKT-II	16/06/2015	16:33	SHUTDOWN FOR CHANGING EARTH STRIP
83	16/06/2015	12:00	ROHINI-II 220/66KV 160MVA TX-II	16/06/2015	15:47	SHUTDOWN FOR REPLACEMENT OF I/C CTS
84	16/06/2015	12:10	PAPPANKALAN-II 66KV G-5 MATIALA CKT	16/06/2015	14:07	SHUTDOWN TO ATTEND HOT POINT
85	16/06/2015	14:10	LODHI RD 33KV 10MVAR CAP. BANK-II	16/06/2015	16:20	SHUTDOWN FOR GEN MTC.
86	17/06/2015	6:15	PAPPANKALAN-II 66KV G-5 MATIALA CKT-2	17/06/2015	8:30	SHUTDOWN OF CKT. TO ATTEND HOT POINT
87	17/06/2015	7:00	HARSH VIHAR 400/220KV 315MVA ICT-III	17/06/2015	13:01	SHUTDOWN FOR TAN DELTA TESTING
88	17/06/2015	7:55	MEHRAULI 220/66KV 100MVA TX-III	17/06/2015	17:35	SHUTDOWN OF TR. FOR REPLACING BUSHING
89	17/06/2015	8:10	INDRAPRASTHA POWER 220/33KV 100MVA TX-III	17/06/2015	10:50	SHUTDOWN OF TR. FOR MTC.
90	17/06/2015	9:15	MUNDKA 400/220KV 315MVA ICT-II	17/06/2015	19:40	SHUTDOWN OF TR. FOR TAN DELTA TESTING
91	17/06/2015	9:45	MASJID MOTH 33KV COURTCOMPLEX NO-II CKT	17/06/2015	13:45	SHUTDOWN FOR BREAKER TESTING
92	17/06/2015	11:30	LODHI RD 33KV DEFENCE COLONY CKT-II	17/06/2015	12:28	SHUTDOWN FOR CHANGING DIODE IN CT
93	17/06/2015	13:01	LODHI RD 33KV IHIC CKT-II	17/06/2015	13:59	SHUTDOWN OF CKT. TO REPLACE DIODE
94	18/06/2015	7:00	HARSH VIHAR 400/220KV 315MVA ICT-III	18/06/2015	13:01	SHUTDOWN FOR TAN DELTA TESTING
95	18/06/2015	11:14	OKHLA 33KV BALAJI CKT-I	18/06/2015	17:30	SHUTDOWN FOR MTC. WORK
96	18/06/2015	13:55	HARSH VIHAR 400/220KV 315MVA ICT-II	18/06/2015	18:35	SHUTDOWN FOR TAN DELTA TESTING
97	18/06/2015	18:45	LODHI RD 220/33KV 100MVA TX-I	18/06/2015	19:46	S/D OF CKT FOR REMOVING DAMAGED CONDUCTOR OF 220KV LODHI ROAD- MAHARANIBAGH CKT-2.
98	19/06/2015	11:00	BAWANA 400/220KV 315MVA ICT-I	19/06/2015	12:40	SHUTDOWN FOR ATTENDING HOT POINT ON DROPPER JUMPER
99	19/06/2015	17:35	GAZIPUR 66KV KONDLI CKT-II	19/06/2015	18:25	SHUTDOWN FOR ATTENDING HOT POINT
100	20/06/2015	7:40	BAWANA 400/220KV 315MVA ICT-V	20/06/2015	12:06	SHUTDOWN FOR ATTENDING HOT SPOT ON Y PHASE DROPPER JUMPER
101	20/06/2015	10:50	INDRAPRASTHA POWER 33KV ELECTRIC LANE CKT (BAY-4)	20/06/2015	12:20	SHUTDOWN TO ATTEND HOT POINT
102	20/06/2015	13:35	INDRAPRASTHA POWER 33KV NIRMAN BHAWAN CKT (BAY-2)	20/06/2015	16:00	SHUTDOWN TO ATTEND HOT POINT
103	21/06/2015	6:00	PAPPANKALAN-II 220/66KV 100MVA TX-I	21/06/2015	11:30	SHUTDOWN TO ATTEND RED HOT POINT
104	21/06/2015	6:56	GOPALPUR 33KV INDRA VIHAR CKT-I	21/06/2015	12:02	SHUTDOWN FOR ATTENDING HOT POINT
105	21/06/2015	7:02	LODHI RD 220/33KV 100MVA TX-I	21/06/2015	7:48	SHUTDOWN FOR REMOVING DIODE FROM CONTROL PANEL
106	21/06/2015	7:48	LODHI RD 220/33KV 100MVA TX-I	21/06/2015	8:20	SHUTDOWN FOR REPLACEMENT OF FREE WHEELING DIODE FROM CONTROL PANEL

SLN O	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
107	21/06/2015	7:54	BAWANA 400/220KV 315MVA ICT-VI	21/06/2015	11:34	SHUTDOWN FOR ATTENDING Y PH. JACK BUS DROPPER JUMPER
108	21/06/2015	8:30	LODHI RD 33/11KV, 20MVA TX-I	21/06/2015	9:05	SHUTDOWN FOR FREE WHEELING DIODE
109	21/06/2015	10:15	LODHI RD 33/11KV, 16MVA TX-III	21/06/2015	10:59	SHUTDOWN FOR REMOVING WHEELING DIODE
110	21/06/2015	11:03	LODHI RD 33/11KV, 16MVA TX-IV	21/06/2015	11:35	SHUTDOWN FOR REMOVING FREE WHEELING DIODE
111	21/06/2015	12:25	LODHI RD 33KV LAJPAT NAGAR CKT-I	21/06/2015	13:19	SHUTDOWN FOR GEN MTC.
112	21/06/2015	13:00	LODHI RD 33KV EXHIBITION GROUND	21/06/2015	13:40	SHUTDOWN FOR REMOVING WHEELING DIODE
113	21/06/2015	13:55	LODHI RD 33KV LAJPAT NAGAR CKT-II	21/06/2015	15:02	SHUTDOWN FOR REMOVING FREE WHEELING DIODE
114	21/06/2015	13:55	LODHI RD 33KV IHC CKT-I	21/06/2015	14:59	FOR REMOVING FREE WHEELING DIODES
115	21/06/2015	14:00	MEHRAULI 66KV VASANT KUNJ D-1	21/06/2015	19:23	SHUTDOWN FOR GEN MTC.
116	21/06/2015	15:14	LODHI RD 33KV HUDCO CKT	21/06/2015	16:20	SHUTDOWN FOR REMOVING FREE WHEELING DIODE
117	21/06/2015	15:18	LODHI RD 33KV NIZAMUDDIN CKT	21/06/2015	16:32	SHUTDOWN FOR REMOVING FREE WHEELING DIODE
118	21/06/2015	15:20	LODHI RD 33KV NDSE CKT-II	21/06/2015	15:58	SHUTDOWN FOR REMOVING FREE WHEELING DIODE
119	21/06/2015	15:54	LODHI RD 33KV DEFENCE COLONY CKT-I (JNS)	21/06/2015	15:54	SHUTDOWN FOR REMOVING FREE WHEELING DIODE
120	21/06/2015	17:25	LODHI RD 33KV VIDYUT BHAWAN	21/06/2015	18:06	SHUTDOWN FOR REMOVING FREE WHEELING DIODE
121	22/06/2015	6:45	PAPPANKALAN-II 220/66KV 100MVA TX-II	22/06/2015	9:30	SHUTDOWN TO ATTEND HOT POINT ON Y PHASE BUS ISOLATOR CLAMP
122	22/06/2015	10:07	MUNDKA 220/66KV 160MVA TX-III	22/06/2015	17:15	SHUTDOWN FOR TAN DELTA TESTING
123	22/06/2015	10:47	BAWANA 400/220KV 315MVA ICT-IV	22/06/2015	13:12	SHUTDOWN FOR ATTENDING ON LV BUSHING
124	22/06/2015	10:50	NARAINA 220/33KV 100MVA TX-III	22/06/2015	13:20	SHUTDOWN FOR OIL TOPUP IN CONSERVATOR TANK
125	22/06/2015	12:20	PARKSTREET 33KV 10MVAR CAP. BANK-I	22/06/2015	13:57	SHUTDOWN FOR CELL BALANCING
126	23/06/2015	6:50	PAPPANKALAN-II 66KV G-5 MATIALA CKT-2	23/06/2015	10:15	SHUTDOWN FOR ATTENDING HOT POINT
127	23/06/2015	7:45	SHALIMAR BAGH 220/33KV 100MVA TX-I	23/06/2015	12:48	SHUTDOWN FOR ATTENDING OIL LEAKAGE ON Y PHASE CT
128	23/06/2015	10:30	NAJAFGARH 66KV 20MVAR CAP. BANK-III	23/06/2015	14:50	SHUTDOWN FOR ATTENDING UNBALANCING CELLS
129	24/06/2015	6:50	PAPPANKALAN-II 66KV G-5 MATIALA CKT-2	24/06/2015	10:15	SHUTDOWN FOR ATTENDING HOT POINT
130	24/06/2015	7:00	GOPALPUR 33KV 10 MVAR CAP. BANK-III	24/06/2015	9:30	SHUTDOWN FOR GEN. MTC
131	24/06/2015	10:01	BAMNAULI 400/220KV 315MVA ICT-III	24/06/2015	10:40	SHUTDOWN FOR FILLING OIL IN OLTC TANK
132	24/06/2015	10:55	NAJAFGARH 66KV 20MVAR CAP. BANK-I	24/06/2015	12:10	SHUTDOWN FOR ATTENDING B PHASE CT CLAMP
133	24/06/2015	12:30	NAJAFGARH 66KV 20 MVAR CAP. BANK-II	24/06/2015	16:45	SHUTDOWN TO ATTEND HOT POINT ON Y PHASE CT CLAMP
134	25/06/2015	9:35	MASJID MOTH 220/33KV 100MVA TX-I	25/06/2015	11:35	SHUTDOWN TO REPLACE CONDUCTOR
135	25/06/2015	10:50	OKHLA 33KV NEHRU PLACE CKT-IV	25/06/2015	12:31	SHUTDOWN OF CKT. TO ATTEND HOT POINT
136	25/06/2015	12:00	PAPPANKALAN-II 66KV G-15 DWARKA CKT-II	25/06/2015	13:55	SHUTDOWN OF CKT. TO ATTEND HOT POINT

SLN O	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
137	25/06/2015	14:45	MEHRAULI 66KV VASANT KUNJ D-2	25/06/2015	20:15	SHUTDOWN FOR GEN. MTC.
138	26/06/2015	6:38	PARKSTREET 220/33 KV 100MVA TX-II	26/06/2015	10:35	SHUTDOWN FOR TAN DELTA TESTING
139	26/06/2015	6:45	PAPPANKALAN-I 220/ 66KV 100MVA TX-III	26/06/2015	9:34	SHUTDOWN TO ATTEND HOT POINT ON B PHASE CT CLAMP AND B PHASE COMMON JUMPER
140	26/06/2015	10:50	WAZIRPUR 220/33KV 100MVA TX-II	26/06/2015	19:23	SHUTDOWN OF TR. FOR TO ATTEND CABLE SEALING END GAS LEAKAGE B PHASE
141	26/06/2015	11:30	VASANT KUNJ 66KV VASANT KUNJ D-I CKT	26/06/2015	17:10	SHUTDOWN FOR ATTENDING LEAKAGE AND GEN MTC.
142	26/06/2015	16:10	SHALIMAR BAGH 33KV SMB KHOSLA O/H CKT-II	26/06/2015	19:10	SHUTDOWN FOR ATTENDING HOT POINT ON CLAMP
143	27/06/2015	7:00	NAJAFGARH 66/11KV, 20MVA TX-I	27/06/2015	7:45	SHUTDOWN TO ATTEND HOT POINT ON Y PHASE BUSHING CLAMP
144	27/06/2015	7:05	PAPPANKALAN-I 66/11KV, 20MVA TX-I	27/06/2015	8:36	SHUTDOWN TO ATTEND HOT POINT
145	27/06/2015	8:25	SHALIMAR BAGH 220 /33KV 100MVA TX-III	27/06/2015	10:37	SHUTDOWN TO ATTEND Y PHASE BUSHING HV SIDE
146	27/06/2015	8:45	KANJAWALA 220/ 66KV 100MVA TX-II	27/06/2015	10:25	SHUTDOWN TO ATTEND HOT POINT ON Y PHASE HV BUSHING
147	27/06/2015	9:05	PAPPANKALAN-I 66/11KV, 20MVA TX-II	27/06/2015	10:20	SHUTDOWN TO ATTEND HOT POINT ON Y PHASE LV JOINT
148	27/06/2015	12:40	MUNDKA 400/220KV 315MVA ICT-IV	27/06/2015	17:10	SHUTDOWN FOR GEN MTC.
149	27/06/2015	14:30	WAZIRABAD 220/66 KV 160MVA TX-I	27/06/2015	17:42	SHUTDOWN FOR ATTENDING ON NUTRAL CT HOT POINT
150	27/06/2015	15:40	NAJAFGARH 66KV NANGLOI CKT	27/06/2015	16:28	SHUTDOWN FOR ATTENDING HOT POINT
151	28/06/2015	6:15	PARKSTREET 220/33 KV 100MVA TX-II	28/06/2015	13:52	S/D OF TX ALONG WITH 33KV I/C-2 FOR REPLACING B-PH BUSHING.
152	28/06/2015	7:05	PAPPANKALAN-I 220/ 66KV 100MVA TX-I	28/06/2015	9:34	S/D OF TX TO ATTEND HOT POINT AT R-PH CONDUCTOR CLAMP.
153	28/06/2015	7:05	NAJAFGARH 220/66KV 100MVA TX-II	28/06/2015	9:34	S/D OF TX ALONG WITH 66KV I/C-2 TO ATTEND HOT POINT AT Y-PH CT CLAMP AND B & Y-PH TOP CLAMP OF CB.
154	28/06/2015	8:28	GOPALPUR 66KV JAHANGIRPURI CKT-II	28/06/2015	11:55	S/D OF CKT FOR GENERAL MAINTENANCE.
155	28/06/2015	9:55	PAPPANKALAN-I 220/66KV 100MVA TX-II	28/06/2015	12:40	S/D OF TX TO ATTEND HOT POINT AT Y-PH CT CLAMP AND R-PH LINE ISOLATOR CLAMP.
156	29/06/2015	7:15	NAJAFGARH 220/66KV 100MVA TX-I	29/06/2015	10:10	S/D OF TX TO ATTEND HOT POINT AT B-PH LINE ISOLATOR CLAMP.
157	29/06/2015	10:40	NAJAFGARH 220/66KV 100MVA TX-III	29/06/2015	13:22	S/D OF TX TO ATTEND HOT POINT AT R&Y-PH ISOLATORS JAW COMMON SIDE, Y&B-PH LINE ISOLATORS CLAMP AND Y-PH CB TOP CLAMP.
158	29/06/2015	16:27	NARELA 66/33KV, 30MVA TX	29/06/2015	17:18	S/D OF TX TO CHECK CORE AND EARTHING TERMINAL OF TX.
159	30/06/2015	7:10	NARELA 66/33KV, 30MVA TX	30/06/2015	10:50	S/D OF TX FOR REPLACING ISOLATOR JAW.
160	30/06/2015	10:55	PAPPANKALAN-I 66KV DMRC CKT-I	01/07/2015	2:28	S/D OF CKT BY DMRC.
161	30/06/2015	11:40	WAZIRPUR 220/33KV 100MVA TX-II	30/06/2015	13:47	S/D OF TX TO CHCEK OPERATION OF CB AND ISOLATOR THROUGH REMOTE.
162	30/06/2015	12:17	NARAINA 220/33KV 100MVA TX-II	30/06/2015	16:28	S/D OF TX TO ATTEND ATTEND HOT POINT AT Y-PH CB CLAMP.
163	30/06/2015	14:50	MASJID MOTH 33 KV SIRIFORT	30/06/2015	16:00	S/D OF CKT FOR REMOVING BIRD NEST.

## DETAILS OF 400/220KV BREAKDOWN/TRIPPINGS OCCURRED IN DTL SYSTEM DURING THE MONTH JULY -2015

SLN O	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
1	2.7.15	11:30	ELECTRIC LANE 220/33KV 100MVA TX-II	2.7.15	11:51	TR. TRIPPED ON SPR, F6
2	2.7.15	11:50	IP-220/33KV 100MVA TX-I	2.7.15	12:10	TR. TRIPPED ON 86, 51NX
3	2.7.15	11:50	IP-220/33KV 100MVA TX-II	2.7.15	12:10	TR. TRIPPED ON E/F
4	2.7.15	18:00	IP-220/33KV 100MVA TX-I	2.7.15	18:22	33KV I/C-I TRIPPED ON O/C, E/F, 86
5	2.7.15	18:30	IP-220/33KV 100MVA TX-I	2.7.15	18:38	33KV I/C-I TRIPPED ON 86, O/C, E/F
6	2.7.15	18:30	IP-33KV 10MVAR CAP. BANK-III	03.07.1 5	19:10	CAPACITOR BANK MADE OFF DUE TO Y PHASE CT CAUGHT FIRE
7	3.7.15	15:05	NARAINA 220/33KV 100MVA TX-III	3.7.15	15:24	TX TRIPPED ON 86B AND 33KV I/C-3 TRIPPED ON O/C.
8	3.7.15	15:05	NARAINA 220/33KV 100MVA TX-I	3.7.15	15:24	33KV I/C-1 TRIPPED ON O/C.
9	4.7.15	19:43	220KV PRAGATI - SARITA VIHAR CKT	4.7.15	22:22	AT PRAGATI :D/P,Z-1, DIST-2.991KM. AT SARITA VIHAR :D/P,Z-1,DIST-8.80KM 186A&B.
10	4.7.15	20:14	PRAGATI 220/66KV 160MVA TX-II	4.7.15	22:22	TX TRIPPED ON REF.
11	5.7.15	22:22	220KV MUNDKA- NAJAFGARH CKT-I	5.7.15	22:49	AT MUNDKA :D/P,Z-1,2 & 3,B-PH,AUTO- RECLOSE. NO TRIPPING AT NJF.
12	6.7.15	7:16	220 KV TRAUMA CENTER -RIDGE VALLEY CKT-2	6.7.15	12:11	AT TRAUMA CENTER CKT TRIPPED ON O/C,86A&B. AT RIDGE VALLEY CKT TRIPPED ON GENERAL TRIP,FUSE FAIL.
13	6.7.15	16:07	220KV GAZIPUR - MAHARANIBAGH CKT. -II	6.7.15	16:27	AT MAHARANI BAGH CKT TRIPPED ON D/P,Z-2&3. NO TRIPPING AT GAZIPUR. HOWEVER 220KV BUS COUPLER TRIPPED ON B-PH,O/C AT GAZIPUR.
14	6.7.15	16:07	220KV GAZIPUR - MAHARANIBAGH CKT. -I	6.7.15	16:27	AT MAHARANI BAGH CKT TRIPPED ON D/P,Z-2&3. NO TRIPPING AT GAZIPUR. HOWEVER 220KV BUS COUPLER TRIPPED ON B-PH,O/C AT GAZIPUR.
15	6.7.15	23:08	RIDGE VALLEY 220/66KV 160MVA TX-II	7.7.15	18:39	TX TRIPPED ON DIFFERENTIAL AND I/C-2 TRIPPED ON 86.
16	7.7.15	16:50	BAMNAULI 400/220KV 315MVA ICT-I	7.7.15	21:50	ICT TRIPPED ON DIFFERENTIAL RY&B- PH. 220KV I/C-1 TRIPPED ON O/C,B- PH,186. Y-PH LA OF 220KV SIDE DAMAGED.
17	7.7.15	19:01	400KV BAMNAULI- JHATIKARA CKT-II	7.7.15	19:35	AT BAMNAULI CKT TRIPPED ON 186A, 85LO. NO TRIPPING AT JHATIKARA.
18	7.7.15	19:55	MEHRAULI 66/11KV, 20MVA TX-I	7.7.15	22:45	11KV I/C-1 TRIPPED ON 86.
19	8.7.15	9:58	RIDGE VALLEY 220/66KV 160MVA TX-II	10.7.15	17:57	TX TRIPPED ON DIFFERENTIAL PROT. AND 66KV I/C-2 TRIPPED ON 86A.
20	8.7.15	23:41	400KV BALLABHGARH- BAMNAULI CKT-I	20.7.15	16:28	CKT MADE OFF AT BAMNAULI S/STN DUE TO THEFT OF EARTH STRIP.
21	9.7.15	11:15	INDRAPRASTHA POWER 33KV NIRMAN BHAWAN CKT (BAY-2)	9.7.15	18:15	R-PH JUMPER OF CKT SNAPPED. CKT DID NOT TRIP BUT MADE OFF MANUALLY.
22	9.7.15	11:15	INDRAPRASTHA POWER 220/33KV 100MVA TX-I	9.7.15	18:15	33KV I/C-1 OF TX TRIPPED ON 51NX,E/F,86.
23	9.7.15	14:00	WAZIRPUR 220/33KV 100MVA TX-II	9.7.15	14:51	TX TRIPPED ON 86-A,86-B,GRA PROTECTION FAIL, DC FAIL.
24	9.7.15	15:00	PAPPANKALAN-I 66KV 20MVAR CAP. BANK	10.7.15	9:35	WHILE CHARGING CAP BANK, E/F,51- R&B RELAY APPEARED BUT CAP BANK DID NOT TRIP.
25	10.7.15	8:55	400KV MANDOLA- BAWANA CKT-I	10.7.15	17:07	CKT MADE OFF AT BAWANA AS SPARKING OBSERVED AT B-PH CVT CLAMP LINE SIDE.
26	10.7.15	9:30	NAJAFGARH 66/11KV, 20MVA TX-III	10.7.15	13:25	TX TRIPPED ON HIGH OIL TEMPERATURE.
27	10.7.15	16:08	220KV KASHMEREGRATE - DMRC CKT.-II	10.7.15	16:32	CKT TRIPPED WITHOUT INDICATION AT KASHMEREGRATE.
28	10.7.15	16:08	220KV WAZIRABAD - KASHMEREGRATE CKT-II	10.7.15	16:23	CKT TRIPPED WITHOUT INDICATION AT KASHMEREGRATE. NO TRIPPING AT WAZIRABAD.
29	10.7.15	18:02	GEETA COLONY 220/33KV 100MVA TX-I	10.7.15	18:46	TX TRIPPED ON 30B. 33KV I/C-1 TRIPPED O/C,30CB,86.
30	10.7.15	18:24	220KV BAMNAULI- NARAINA CKT-I	10.7.15	21:50	AT BAMNAULI CKT TRIPPED ON D/P,A- PH,Z-1,DIST-3.47KM.
31	11.7.15	2:02	PARKSTREET 220/66KV 100MVA TX-I	11.7.15	2:22	66KV I/C-1 OF TX TRIPPED ON E/F.

SLN O	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
32	11.7.15	5:42	SHALIMAR BAGH 33/11KV, 20MVA TX	11.7.15	11:58	TX TRIPPED ON DIFFERENTIAL AND E/F. 11KV I/C TRIPPED ON INTER TRIPPING. FLASH OCCURRED ON R & Y-PH BUSHING HV SIDE.
33	11.7.15	8:50	ROHINI 220/66KV 100MVA TX-I	11.7.15	10:15	TX TRIPPED ON 96,186A&B. 66KV I/C-1 TRIPPED ON 186. BUS BAR PROTECTION OPERATED AT ROHINI.
34	11.7.15	8:50	ROHINI 220/66KV 100MVA TX-II	11.7.15	10:15	TX TRIPPED ON 96,186A&B. 66KV I/C-1 TRIPPED ON 186. BUS BAR PROTECTION OPERATED AT ROHINI.
35	11.7.15	8:50	220KVBAWANA-ROHINI CKT-I	11.7.15	10:15	CKT TRIPPED ON 96,186A&B AT ROHINI. BUS BAR PROTECTION OPERATED AT ROHINI. NO TRIPPING AT BAWANA.
36	11.7.15	8:50	220KV ROHINI-SHALIMARBAGH CKT-I	11.7.15	10:42	CKT TRIPPED ON BUS BAR PROTECTION AT ROHINI.
37	11.7.15	9:20	220KV KANJHAWALA-NAJAFGARH CKT-2	11.7.15	9:29	AT NJF CKT TRIPPED ON 186. NO TRIPPING AT KANJHAWALA.
38	11.7.15	14:44	VASANT KUNJ 220/66KV 100MVA TX-II	11.7.15	20:50	TX TRIPPED ON 30A,B-PH 87T (DIFFERENTIAL PROTECTION).
39	11.7.15	16:21	WAZIRPUR 220/33KV 100MVA TX-II	11.7.15	17:26	TX TRIPPED ON 86 A&B, GR-A,GR-B, PRD-I,PRV.
40	11.7.15	16:28	PARKSTREET 220/66KV 100MVA TX-II	11.7.15	19:16	TX TRIPPED ON 30F, PRV, 86B. 66KV I/C-2 TRIPPED ON 95B.
41	11.7.15	16:39	PARKSTREET 220/66KV 100MVA TX-I	11.7.15	16:42	66KV I/C-1 TRIPPED ON E/F,51N.
42	11.7.15	21:20	NAJAFGARH 220/66KV 100MVA TX-I	11.7.15	22:04	TX TRIPPED ON E/F,86. 66KV I/C-1 TRIPPED ON INTER TRIPPING.
43	11.7.15	21:20	NAJAFGARH 220/66KV 100MVA TX-III	11.7.15	22:04	TX TRIPPED ON E/F,86. 66KV I/C-1 TRIPPED ON INTER TRIPPING.
44	11.7.15	21:20	MUNDKA 400/220KV 315MVA ICT-III	12.7.15	20:33	ICT TRIPPED ON PRV,86-A&B,30F.
45	11.7.15	21:20	220KV MUNDKA-PEERAGARHI CKT-II	12.7.15	18:44	AT MUNDKA CKT TRIPPED ON 86,87,A/R, CARRIER CHANNEL I&II FAILED. NO TRIPPING AT PEERAGARHI.
46	11.7.15	21:20	220KV MUNDKA-NAJAFGARH CKT-I	11.7.15	23:14	AT MUNDKA CKT TRIPPED ON D/P,75A&B,86A&B. B-PH POLE OF CB STRUCK. AT NJF CKT TRIPPED ON E/F,86.
47	11.7.15	21:25	INDRAPRASTHA POWER 220/33KV 100MVA TX-III	11.7.15	22:10	33KV I/C-3 TRIPPED ON 51 R&B-N,O/C,E/F.
48	12.7.15	4:57	PARKSTREET 220/66KV 100MVA TX-I	12.7.15	5:12	66KV I/C-1 TRIPPED ON E/F.
49	12.7.15	10:08	HARSH VIHAR 400/220KV 315MVA ICT-III	12.7.15	11:39	ICT TRIPPED ON WINDING TEMP. ALARM,A/R,86
50	12.7.15	10:29	400KV DADRI - HARSH VIHAR CKT. -II	12.7.15	12:22	AT HARSH VIHAR CKT TRIPPED ON GENERAL TRIP,RY&B-PH,86, A/R.
51	12.7.15	19:20	220KV BAWANA-SHALIMARBAGH CKT-II	12.7.15	20:50	AT SHALIMARBAGH CKT TRIPPED WITHOUT INDICATION. NO TRIPPING AT BAWANA.
52	13.7.15	16:22	220KV MEHRAULI - VASANT KUNJ CKT.-I	13.7.15	16:55	AT VASANT KUNJ CKT TRIPPED ON AUTO RE-CLOSE LOCK OUT. NO TRIPPING AT MEHRAULI.
53	13.7.15	19:05	400KV BAMNAULI-JHATIKARA CKT-II	13.7.15	19:16	AT BAMNAULI CKT TRIPPED ON 85LO,186-A&B. NO TRIPPING AT JHATIKARA.
54	13.7.15	21:55	INDRAPRASTHA POWER 220/33KV 100MVA TX-I	13.7.15	22:07	33KV I/C-1 TRIPPED ON O/C.
55	15.7.15	7:56	PEERA GARHI 220/33KV 100MVA TX-III	15.7.15	9:50	33KV I/C-3 TRIPPED ON 86.
56	15.7.15	10:02	PEERA GARHI 220/33KV 100MVA TX-II	15.7.15	10:10	TX TRIPPED ON UNDER VOLTAGE AND 33KV I/C-2 TRIPPED ON 86-A&B.
57	16.7.15	20:56	OKHLA 220/33KV 100MVA TX-III	16.7.15	22:50	TX TRIPPED ON 51N,E/F,86.

SLN O	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
58	17.7.15	20:20	NAJAFGARH 66/11KV, 20MVA TX-II	17.7.15	20:38	TX TRIPPED ON O/C.
59	18.7.15	11:39	220KV BAMNAULI - DIAL CKT-II	18.7.15	16:38	AT BAMNAULI CKT TRIPPED ON D/P,Z-1,DIST-11.2 KM, 186-A&B. AT DIAL CKT TRIPPED ON REL FUSE FAIL, RED FUSE FAIL,RED COMMUNICATION FAIL,52,REL MAIN-2,Z-1 OPERATED.
60	18.7.15	14:32	220KV WAZIRABAD- GEETA COLONY CKT-I	18.7.15	14:37	AT GEETA COLONY CKT TRIPPED ON D/P,Z-1,DIST-4.314KM. NO TRIPPING AT WZB S/STN.
61	18.7.15	14:32	220KV WAZIRABAD - MANDOLA CKT-I	19.7.15	12:32	AT MANDOLA CKT TRIPPED ON D/P,B-PH,Z-2,DIST-12.72KM. AT WZB CKT TRIPPED ON GENERAL TRIP,RY&B-PH,Z-1. Y-PH LA DAMAGED AT WZB S/STN AND Y-PH CONDUCTOR BETWEEN DEAD END TOWER AND GANTRY SNAPPED AT MANDOLA S/STN.
62	19.7.15	7:30	INDRAPRASTHA POWER 220/33KV 100MVA TX-II	19.7.15	7:50	33KV I/C-2 TRIPPED ON E/F.
63	19.7.15	10:02	NAJAFGARH 66/11KV, 20MVA TX-II	19.7.15	14:35	TX TRIPPED ON O/C.
64	20.7.15	10:00	220KV BAWANA-SHALIMARBAGH CKT-II	20.7.15	10:11	AT BAWANA CKT TRIPPED ON D/P,B-PH,86. NO TRIPPING AT SHALIMARBAGH.
65	20.7.15	15:56	INDRAPRASTHA POWER 220/33KV 100MVA TX-II	20.7.15	16:10	TX TRIPPED ON E/F.
66	21.7.15	2:40	INDRAPRASTHA POWER 220/33KV 100MVA TX-I	21.7.15	3:15	33KV I/C-1 OF TX TRIPPED ON 51NX,E/F.
67	21.7.15	3:05	INDRAPRASTHA POWER 220/33KV 100MVA TX-II	21.7.15	3:15	33KV I/C-2 OF TX TRIPPED ON E/F.
68	21.7.15	14:35	LODHI RD 220/33KV 100MVA TX-I	21.7.15	17:44	TX TRIPPED ON 186 A&B,86B.
69	21.7.15	14:35	LODHI RD 220/33KV 100MVA TX-II	21.7.15	15:04	TX TRIPPED ON O/C,67A, 86A&B. 33KV I/C-2 TRIPPED ON 86B.
70	21.7.15	14:59	220KV BAMNAULI - DIAL CKT-I	21.7.15	20:16	AT BAMNAULI CKT TRIPPED ON D/P,Z-2&3,DIST-15.17KM,186A& B. AT DIAL CKT TRIPPED ON D/P,Z-2,RY&B-PH.
71	21.7.15	14:59	220KV BAMNAULI - DIAL CKT-II	21.7.15	22:41	AT BAMNAULI CKT TRIPPED ON D/P,DIST-20KM,186A&B.AT DIAL CKT TRIPPED ON D/P,Z-1. CONDUCTOR DAMAGED BETWEEN T NO-99 AND 100.
72	21.7.15	15:31	400KV BAMNAULI-JHATIKARA CKT-II	21.7.15	20:58	AT BAMNAULI CKT TRIPPED ON D/P,Z-1,B&C-PH,DIST-754M, 186A& B. AT JHATIKARA CKT TRIPPED ON D/P,Y&B-PH,DIST-10KM.
73	21.7.15	17:48	LODHI RD 220/33KV 100MVA TX-II	21.7.15	20:35	TX TRIPPED ON 86B,186A&B,A/R. 33KV I/C-2 TRIPPED ON 86B.
74	21.7.15	20:40	220KV GEETA COLONY-PATPARGANJ CKT -II	21.7.15	22:30	AT PPG CKT TRIPPED ON 86. NO TRIPPING AT GEETA COLONY.
75	23.7.15	13:13	220KV PRAGATI - PARK STREET CKT-I	23.7.15	13:45	AT PRAGATI CKT TRIPPED DUE TO OPERATION OF BUS BAR PROTECTION. NO TRIPPING AT PARK STREET.
76	23.7.15	13:13	220KV PRAGATI - I.P.CKT - I	23.7.15	14:44	AT PRAGATI CKT TRIPPED DUE TO OPERATION OF BUS BAR PROTECTION. AT IP CKT TRIPPED ON D/P,Z-1.
77	23.7.15	13:13	220KV PRAGATI - PARK STREET CKT-II	23.7.15	14:11	AT PRAGATI CKT TRIPPED DUE TO OPERATION OF BUS BAR PROTECTION. NO TRIPPING AT PARK STREET.
78	23.7.15	13:13	220KV PRAGATI - I.P.CKT - II	23.7.15	18:46	AT PRAGATI CKT TRIPPED DUE TO OPERATION OF BUS BAR PROTECTION. NO TRIPPING AT IP S/STN.
79	23.7.15	13:13	220KV PRAGATI - SARITA VIHAR CKT	23.7.15	13:42	AT PRAGATI CKT TRIPPED DUE TO OPERATION OF BUS BAR PROTECTION. NO TRIPPING AT SARITA VIHAR.

SLN O	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
80	23.7.15	13:13	PRAGATI 220/66KV 160MVA TX-I	23.7.15	13:58	TX TRIPPED DUE TO OPERATION OF BUS BAR PROTECTION.
81	23.7.15	13:13	PRAGATI 220/66KV 160MVA TX-II	23.7.15	13:49	TX TRIPPED DUE TO OPERATION OF BUS BAR PROTECTION AT PRAGATI S/STN.
82	23.7.15	14:09	PRAGATI 220/66KV 160MVA TX-II	23.7.15	14:16	TX TRIPPED ON 86.
83	24.7.15	9:09	GOPALPUR 33KV DIFR CKT	26.7.15	10:45	CKT TRIPPED ON D/P,Z-2,Y-PH,186 ,67NX Y-PH LINE ISOLATOR CONDUCTOR SNAPPED. PROBLEM IN CB AT GOPALPUR.
84	24.7.15	10:50	NARAINA 33KV 10MVAR CAP. BANK-I	24.7.15	11:52	CAP BANK TRIPPED ON NEUTRAL UNBALANCE.
85	25.7.15	9:44	PAPPANKALAN-I 220/66KV 100MVA TX-II	25.7.15	9:50	TX TRIPPED ON 86.
86	25.7.15	9:44	220KV BAMNAULI - DIAL CKT-II	25.7.15	10:32	AT DIAL CKT TRIPPED ON D/P,RY&B-PH. NO TRIPPING AT BAMNAULI.
87	25.7.15	9:44	220KV DIAL-MEHRUALI CKT-II	25.7.15	9:47	AT MEHRUALI CKT TRIPPED ON 186A&B. NO TRIPPING AT DIAL.
88	25.7.15	9:44	220KV BAMNAULI-NAJAFGARH CKT-II	25.7.15	17:59	AT BAMNAULI CKT TRIPPED ON D/P,C-PH,186A&B,DIST-15.8KM. CKT WAS IN OFF POSITION AT NJF.
89	25.7.15	9:44	220KV BAMNAULI - DIAL CKT-I	25.7.15	10:32	AT DIAL CKT TRIPPED ON D/P,RY&B-PH. NO TRIPPING AT BAMNAULI.
90	25.7.15	9:44	220KV BAMNAULI-PAPPANKALAN-I CKT-II	25.7.15	13:35	AT BAMNAULI CKT TRIPPED ON 67N, 186A&B. Y-PH CT CLAMP DAMAGED. NO TRIPPING AT PPK-1.
91	25.7.15	9:44	220KV BAMNAULI-PAPPANKALAN-I CKT-I	25.7.15	9:51	AT BAMNAULI CKT TRIPPED ON 86. NO TRIPPING AT PPK-1
92	25.7.15	11:46	220KV MEHRUALI - BTPS CKT. - I	25.7.15	19:12	AT MEHRUALI CKT TRIPPED ON D/P,Z-1,DIST-1.48KM,186. AT BTPS CKT TRIPPED ON D/P,Z-2,DIST-15.7KM.
93	26.7.15	0:55	ROHINI 66KV 20MVAR CAP. BANK-II	26.7.15	13:05	CAP BANK TRIPPED ON RT-164,86.
94	26.7.15	22:26	220KV GOPALPUR-MANDOLACKT-II	27.7.15	0:45	CKT TRIPPED DUE TO OPERATION OF SPS AT MANDOLA.
95	26.7.15	22:26	220KV GOPALPUR-MANDOLACKT-I	26.7.15	23:17	CKT TRIPPED DUE TO OPERATION OF SPS AT MANDOLA.
96	27.7.15	16:05	GEETA COLONY 220/33KV 100MVA TX-I	27.7.15	16:17	TX TRIPPED ON 86,30E AND 33KV I/C-1 TRIPPED ON AUTO TRIP.
97	27.7.15	18:00	GEETA COLONY 220/33KV 100MVA TX-I	27.7.15	19:37	TX TRIPPED ON 30A,86 AND 33KV I/C-1 TRIPPED ON AUTO TRIP.
98	27.7.15	22:02	KANJHAWALA 66/11KV, 20MVA TX-II	27.7.15	22:08	11KV I/C-2 TRIPPED ON E/F.
99	28.7.15	12:08	HARSH VIHAR 220/66KV 160MVA ICT-3	28.7.15	13:17	TX TRIPPED ON CB LOW GAS PRESSURE AND 66KV I/C-2 TRIPPED ON 86.
100	28.7.15	12:08	HARSH VIHAR 220/66KV 160MVA ICT-2	28.7.15	13:17	TX TRIPPED ON CB LOW GAS PRESSURE AND 66KV I/C-2 TRIPPED ON 86.
101	28.7.15	12:08	HARSH VIHAR 220/66KV 160MVA ICT-1	28.7.15	13:17	TX TRIPPED ON CB LOW GAS PRESSURE AND 66KV I/C-2 TRIPPED ON 86.
102	29.7.15	8:39	220KV GAZIPUR - MAHARANIBAGH CKT. -I	29.7.15	9:18	AT M BAGH CKT TRIPPED ON D/P,Z-3,DIST-5.5KM. CKT DID NOT TRIP AT GAZIPUR.
103	29.7.15	8:39	220KV GAZIPUR - MAHARANIBAGH CKT. -II	29.7.15	9:11	AT M BAGH CKT TRIPPED ON D/P,DIST-5.1KM. CKT DID NOT TRIP AT GAZIPUR.
104	29.7.15	13:12	220KV GAZIPUR - MAHARANIBAGH CKT. -I	29.7.15	17:04	AT M BAGH CKT TRIPPED ON D/P,DIST-0.2KM. NO TRIPPING AT GAZIPUR.
105	30.7.15	5:17	220KV MUNDKA-KANJHAWALA CKT-I	30.7.15	6:06	AT MUNDKA CKT TRIPPED ON D/P,Z-1,DIST-2.6KM. CKT DID NOT TRIP AT KANJHAWALA.
106	30.7.15	5:17	220KV MUNDKA-NAJAFGARH CKT-I	30.7.15	5:56	AT NJF CKT TRIPPED ON E/F,D/P,Z-1,2 & 3. NO TRIPPING AT MUNDKA.
107	30.7.15	5:17	220KV KANJHAWALA-NAJAFGARH CKT-2	30.7.15	6:08	AT NJF CKT TRIPPED ON D/P,Z-1. NO TRIPPING AT KANJHAWALA.
108	31.7.15	16:14	220KV BAMNAULI - DIAL CKT-I	31.7.15	18:24	AT BAMNAULI CKT TRIPPED ON D/P,Z-1,A-PH,DIST-6.145KM. AT DIAL CKT TRIPPED ON REL-I&II,MAIN-II,R-PH TRIP,Z-1.

**19.5 DETAILS OF 400/220KV BREAKDOWN/TRIPPINGS OCCURRED IN DTL SYSTEM DURING THE MONTH AUGUST – 2015**

S. N.	OCCURRENCE OF BREAKDOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
1	01/08/15	8:32	DSIIDC BAWANA 220/ 66KV 100MVA TX-III	01/08/15	14:00	66KV I/C-3 OF TX TRIPPED ON O/E/F,86.
2	01/08/15	8:32	DSIIDC BAWANA 220/66KV 100MVA TX-II	01/08/15	18:52	TX TRIPPED ON DIFFERENTIAL PROT.,86. 66KV I/C-2 TRIPPED ON 86.
3	01/08/15	15:16	PEERA GARHI 220/33KV 100MVA TX-II	01/08/15	16:39	33KV I/C-2 TRIPPED ON 86A&B.
4	01/08/15	13:11	220KV OKHLA - BTPS CKT. - II	01/08/15	13:20	AT BTPS CKT TRIPPED ON D/P,Z-1,B-PH, DIST-2.3KM &E/F. CKT DID NOT TRIP AT OKHLA.
5	02/08/15	15:42	220KV GAZIPUR - BTPS CKT	02/08/15	17:22	AT BTPS CKT TRIPPED ON D/P,Z-1,Y-PH, DIST-14.2KM. CKT CB WAS OPEN AT GAZIPUR.
6	02/08/15	19:15	220KV MUNDKA- KANJHAWALA CKT-I	02/08/15	19:27	AT KANJHAWALA CKT TRIPPED ON D/P, MAIN-1&2. NO TRIPPING AT MUNDKA.
7	03/08/15	14:47	220KV DSIIDC BAWANA -NARELA CKT-I	03/08/15	15:02	AT NARELA CKT TRIPPED ON D/P,Z-1, R&B-PH. AT DSIDC CKT TRIPPED ON AB&C-PH,86
8	03/08/15	14:47	220KV DSIIDC BAWANA -NARELA CKT-II	03/08/15	15:02	AT NARELA CKT TRIPPED ON D/P,Z-1, R &B-PH.NO TRIPPING AT DSIDCBAWANA.
9	03/08/15	13:35	GAZIPUR 220/66KV 100MVA TX-I	03/08/15	18:15	TX TRIPPED ON DIFFERENTIAL AND 66KV I/C-1 TRIPPED WITHOUT INDICATION. R-PH LA DAMAGED.
10	03/08/15	19:23	KANJHAWALA 66/11KV, 20MVA TX-II	03/08/15	19:28	11KV I/C-2 OF TX TRIPPED ON E/F.
11	03/08/15	21:10	BAMNAULI 400/220KV 500MVA ICT-II	04/08/15	2:55	ICT MADE AS SPARKING OCCURRED AT Y-PH BUSHING OF 220KV SIDE.
12	03/08/15	14:50	220KV MEHRAULI - BTPS CKT. - II	03/08/15	16:26	AT MEHRAULI CKT TRIPPED ON D/P,Z- 1,DIST-4.312KM,86,186. AT BTPS CKT TRIPPED ON D/P,Z-2,R-PH,DIST-16.3KM.
13	04/08/15	11:48	220KV BAWANA- SHALIMARBAGH CKT-II	04/08/15	11:55	AT SMB CKT TRIPPED ON D/P,Z-3,A-PH. NO TRIPPING AT BAWANA.
14	04/08/15	15:33	220KV DSIIDC BAWANA -NARELA CKT-I	04/08/15	20:10	AT NARELA CKT TRIPPED ON B-PH,186. NO TRIPPING AT DSIDC BAWANA.
15	04/08/15	15:33	220KV BAWANA-DSIIDC BAWANA CKT-II	04/08/15	19:44	AT BAWANA CKT TRIPPED ON D/P,Z-1, DIST-3.24KM,A/R,86. NO TRIPPING AT DSIDC BAWANA. R-PH LOWER CLAMP OF CB DAMAGED AT BAWANA. Y-PH COMMON JUMPER FLASHED AT DSIDC
16	04/08/15	15:33	220KV BAWANA-DSIIDC BAWANA CKT-I	04/08/15	15:56	AT DSIDC BAWANA CKT TRIPPED ON D/P,Z-2,A/R. NO TRIPPING AT BAWANA.
17	05/08/15	10:45	220KV MEHRAULI - BTPS CKT. - I	05/08/15	11:00	AT MEHRAULI CKT TRIPPED ON D/P, Z-1, DIST-12.42 KM,C-N PHASE. AT BTPS CKT TRIPPED ON D/P, Z-1, DIST-9.5 KM B-PH.
18	05/08/15	16:07	220KV BAMNAULI- PAPPANKALAN-II CKT-II	05/08/15	19:52	AT PPK-2 CKT TRIPPED ON D/P, Z-1, DIST-3.4 KM. AT BAMNAULI CKT TRIPPED ON D/P, Z-1, DIST-7.1 KM,C-PH.
19	05/08/15	14:54	WAZIRPUR 220/33KV 100MVA TX-II	05/08/15	18:13	TX TRIPPED ON PRV.
20	06/08/15	11:30	MASJID MOTH 220/33KV 100MVA TX-I	06/08/15	12:45	TX TRIPPED ON PRV ALARM, CB TROUBLE ALARM,86. 33KV I/C-1 TRIPPED ON 86.
21	07/08/15	7:40	LODHI RD 33/11KV, 16MVA TX-IV	07/08/15	12:10	TX TRIPPED ON LOW OIL ALARM, 87,86. 11KV I/C-4 TRIPPED WITHOUT INDICATION.
22	07/08/15	10:41	400KV MANDOLA- BAWANA CKT-II	07/08/15	10:49	AT BAWANA CKT TRIPPED ON 186. NO TRIPPING AT MUNDKA.
23	07/08/15	10:53	400KV BAWANA- MUNDKA CKT-II	07/08/15	13:05	AT BAWANA CKT TRIPPED ON 186. NO TRIPPING AT MUNDKA.
24	07/08/15	15:38	220KV WAZIRABAD - MANDOLA CKT-I	07/08/15	18:31	AT WZB CKT TRIPPED ON D/P,Z-1,RY&B- PH. AT MDL CKT TRIPPED ON D/P,Z- 1,186A&B,DIST-10.3KM
25	08/08/15	12:50	220KV GEETA COLONY- PATPARGANJ CKT-I	08/08/15	12:58	AT GEETA COLONY CKT TRIPPED ON D/P,Z-1,AB&C-PH,DIST-2.399KM.O/C. AT PPG CKT TRIPPED ON 186,86.
26	08/08/15	18:08	220KV GOPALPUR- MANDOLACKT-I	08/08/15	18:32	AT GOPALPUR CKT TRIPPED ON D/P,Z- 1,AB&C-PH,DIST-10.2KM. AT MANDOLA CKT TRIPPED ON D/P,Z-1,DIST-17.27KM.
27	08/08/15	16:00	GAZIPUR 220/66KV 160MVA TX-I	08/08/15	16:16	TX TRIPPED ON 87 AND 66KV I/C-1 TRIPPED WITHOUT INDICATION.

S. N.	OCCURRENCE OF BREAKDOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
28	09/08/15	14:28	ROHINI 220/66KV 100MVA TX-III	09/08/15	16:05	AT TX TRIPPED DUE TO OPERATION OF BUS BAR PROTECTION.
29	09/08/15	14:28	220KVB AWANA- ROHINI CKT-II	09/08/15	16:05	AT ROHINI CKT TRIPPED DUE TO OPERATION OF BUS BAR PROTECTION. NO TRIPPING AT BAWANA.
30	09/08/15	14:28	220KV ROHINI-SHALIMARBAGH CKT-II	09/08/15	15:52	AT ROHINI CKT TRIPPED DUE TO OPERATION OF BUS BAR PROTECTION. NO TRIPPING AT SHALIMARBAGH.
31	10/08/15	12:13	220KV MUNDKA-KANJHAWALA CKT-I	10/08/15	12:40	AT MUNDKA CKT TRIPPED ON D/P,Z-2,DIST-15.19KM,86.
32	12/08/15	15:17	220KV WAZIRABAD - MANDOLA CKT-II	12/08/15	16:24	AT WZB CKT TRIPPED ON D/P,Z-1,B-N-PH,DIST-10.3KM. AT MANDOLA CKT TRIPPED ON D/P,Z-1,B-PH,DIST-9.82KM.
33	12/08/15	15:56	220KV MUNDKA-NAJAFGARH CKT-I	12/08/15	17:08	AT MUNDKA CKT TRIPPED ON D/P,Z-2,R-PH,86A,DIST-12.34KM. NO TRIPPING AT NAJAFGARH.
34	12/08/15	16:06	220KV GAZIPUR - MAHARANIBAGH CKT. - I	12/08/15	23:58	AT MAHARANI BAGH CKT TRIPPED ON TC1,R-PH FAULTY,TC2 B-PH FAULTY. NO TRIPPING AT GAZIPUR. B-PH JUMPER SNAPPED AT T NO-33.
35	13/08/15	12:40	BAMNAULI 400/220KV 500MVA ICT-II	13/08/15	14:43	ICT TRIPPED ON BUCHHOLZ.
36	13/08/15	13:49	PEERA GARHI 220/33KV 100MVA TX-III	13/08/15	16:36	TX TRIPPED ON 86.
37	13/08/15	18:54	OKHLA 220/33KV 100MVA TX-IV	13/08/15	19:08	33KV I/C OF TX TRIPPED ON E/F,86.
38	13/08/15	18:54	OKHLA 220/33KV 100MVA TX-III	13/08/15	19:08	33KV I/C OF TX TRIPPED ON E/F,86.
39	13/08/15	20:50	PRAGATI 220/66KV 160MVA TX-II	13/08/15	21:23	TX TRIPPED ON O/C,R-PH,86. 66KV I/C-2 TRIPPED ON O/C, E/F.
40	13/08/15	20:50	PRAGATI 220/66KV 160MVA TX-I	13/08/15	23:13	TX TRIPPED ON LVREF,HVREF,INTER TRIP,O/C R-PH. 66KV I/C-1 TRIPPED ON O./E/F.
41	13/08/15	20:50	GEETA COLONY 220/33KV 100MVA TX-II	13/08/15	20:59	33KV I/C-2 TRIPPED ON SPS.
42	14/08/15	5:42	BAMNAULI 400/220KV 500MVA ICT-II	14/08/15	14:44	TX TRIPPED ON 30K BUCHHOLZ TRIP,95 AND 86.
43	14/08/15	10:40	NARAINA 33KV 10MVAR CAP. BANK-I	14/08/15	12:29	CAP BANK TRIPPED ON UNBALANCING.
44	14/08/15	15:20	LODHI RD 220/33KV 100MVA TX-I	15/08/15	0:10	TX TRIPPED ON DIFFERENTIAL,86A&B. 33KV I/C-1 TRIPPED ON 86A&B.
45	14/08/15	12:55	400KV DADRI - HARSH VIHAR CKT. - II	14/08/15	14:58	AT HARSH VIHAR CKT TRIPPED ON MAIN PROT.TRIP, DIRECT RECEIVE CHANNEL-1. RELAY PROBLEM AT DADRI.
46	15/08/15	13:16	220KV GEETA COLONY-PATPARGANJ CKT-I	15/08/15	13:22	AT GEETA COLONY CKT TRIPPED ON D/P,Z-1,86. AT PPG CKT TRIPPED ON D/P,Z-1,86. BURNT KITE THREAD FOUND AT PPG YARD.
47	16/08/15	11:16	220KV GAZIPUR - BTPS CKT	16/08/15	16:33	AT GZP CKT TRIPPED ON D/P,DIST-18.6KM.
48	16/08/15	8:40	TRAUMA CENTER 220/33KV 100MVA TX-II	16/08/15	11:35	TX TRIPPED ON 86A & B.
49	16/08/15	13:36	NAJAFGARH 66/11KV, 20MVA TX-II	16/08/15	14:11	TX TRIPPED ON O/C,E/F,86.
50	17/08/15	3:35	GAZIPUR 220/66KV 160MVA TX-I	17/08/15	5:30	TX TRIPPED ON DIFFERENTIAL,86. 6KV I/C OF TX TRIPPED ON MASTER RELAY.
51	17/08/15	7:10	OKHLA 220/33KV 100MVA TX-V	17/08/15	16:12	TX TRIPPED ON R-PH,DIFFERENTIAL,86 AND 66KV I/C OF TX TRIPPED ON 86.
52	18/08/15	12:55	220KV SARITA VIHAR - BTPS CKT.-II	18/08/15	20:20	AT SARITA VIHAR CKT TRIPPED ON D/P, Z-2,A&B-PH,186A&B, DIST-3.521KM. R&Y-PH LINE ISOLATOR TOP CLAMP CONDUCTOR DAMAGED. AT BTPS CKT TRIPPED ON D/P,Z-1,DIST-0.5KM.
	18/08/15	13:45	INDRA PRASTHA POWER 220/33KV 100MVA TX-II	18/08/15	13:55	33KV I/C-2 TRIPPED ON E/F.

S. N.	OCCURRENCE OF BREAKDOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
53	19/08/15	11:50	220KV BAWANA- ROHINI CKT-II	19/08/15	17:21	AT BAWANA CKT TRIPPED ON D/P, A-PH, 86. AT ROHINI CKT TRIPPED ON D/P, A-PH, 186.
54	19/08/15	15:07	220KV MEHRAULI - VASANT KUNJ CKT.- II	19/08/15	15:13	AT MEHRAULI CKT TRIPPED ON AUTO RE-CLOSE. NO TRIPPING AT VASANT KUNJ.
55	19/08/15	15:07	220KV MEHRAULI - VASANT KUNJ CKT.-I	19/08/15	15:13	AT MEHRAULI CKT TRIPPED ON AUTO RE-CLOSE. NO TRIPPING AT VASANT KUNJ.
56	19/08/15	9:42	PEERA GARHI 220/33KV 100MVA TX-III	19/08/15	9:58	33KV I/C-3 TRIPPED ON 86.
57	20/08/15	4:55	220KV GOPALPUR- SUBZI MANDI CKT-I	20/08/15	9:42	AT GOPALPUR CKT TRIPPED ON E/F. NO TRIPPING AT SUBZIMANDI.
58	20/08/15	9:49	220KV BAWANA - KANJHAWALA CKT-2	20/08/15	9:50	AT KANJHAWALA CKT TRIPPED ON M2 RYB RELAY. NO TRIPPING AT BAWANA.
59	20/08/15	9:49	220KV BAWANA - KANJHAWALA CKT	20/08/15	10:19	AT BAWANA CKT TRIPPED ON D/P,Z-1, DIST-1.35KM,O/C,A/R. AT KANJHAWALA CKT TRIPPED D/P,C-PH,DIST-8.8KM,86.
60	20/08/15	17:17	220KV GOPALPUR- SUBZI MANDI CKT-II	20/08/15	17:50	AT GOPALPUR CKT TRIPPED ON D/P,Z-1, DIST-4.3KM. NO TRIPPING AT SUBZI MANDI.
61	20/08/15	5:15	GOPALPUR 220/33KV 100MVA TX-II	20/08/15	5:42	33KV I/C-2 TRIPPED ON 86. SPARKING OCCURRED ON 86 RELAY.
62	20/08/15	19:16	PEERA GARHI 220/33KV 100MVA TX-II	20/08/15	19:23	33KV I/C-2 OF TX TRIPPED ON 86.
63	20/08/15	21:55	INDRAPRASTHA POWER 220/33KV 100MVA TX-II	20/08/15	22:35	TX TRIPPED ON SPR,86 AND 33KV I/C-2 TRIPPED ON INTER TRIPPING.
64	21/08/15	0:00	INDRAPRASTHA POWER 220/33KV 100MVA TX-II	21/08/15	13:00	TX TRIPPED ON SPR,86. 33KV I/C-2 TRIPPED ON INTER TRIPPING.
65	21/08/15	2:27	PEERA GARHI 220/33KV 100MVA TX-II	21/08/15	2:30	33KV I/C-2 TRIPPED ON 86.
66	21/08/15	5:02	WAZIRPUR 220/33KV 100MVA TX-I	21/08/15	5:29	TX TRIPPED ON 86.
67	23/08/15	14:38	220KV WAZIRABAD - MANDOLA CKT-III	23/08/15	15:04	AT MANDOLA CKT TRIPPED ON D/P,Z-2,DIST-17.84KM, B&Y-PH, O/C. CKT DID NOT TRIP AT WZB.
68	23/08/15	14:38	220KV WAZIRABAD - MANDOLA CKT-IV	23/08/15	15:41	AT MANDOLA CKT TRIPPED ON D/P,Z-2,DIST-12.58KM,O/C. AT WZB CKT TRIPPED ON B-PH,O/C.
69	23/08/15	14:42	220KV MEHRAULI - VASANT KUNJ CKT.- II	23/08/15	15:54	AT MEHRAULI CKT TRIPPED ON 67CX 186A&B,A/R. CKT DID NOT TRIP AT VASANT KUNJ.
70	24/08/15	19:53	220KV GAZIPUR - MAHARANIBAGH CKT. -II	24/08/15	20:40	AT M BAGH CKT TRIPPED ON D/P,Z-2&3,PT FUSE FAILED. AT GAZIPUR CKT TRIPPED ON D/P,B-PH,DIST-6.14KM,E/F.
71	24/08/15	7:35	INDRAPRASTHA POWER 220/33KV 100MVA TX-II	24/08/15	8:05	TX TRIPPED WITHOUT INDICATION. MONKEY ELECTROCUTED IN YARD AND ALL PHASE LA DAMAGED.
72	24/08/15	8:35	PAPPANKALAN-I 66/11KV, 20MVA TX-II	24/08/15	12:08	TX TRIPPED ON DIFFERENTIAL ,E/F.
73	25/08/15	10:55	220KV MAHARANIBAGH - TRAUMA CENTER CKT-I	25/08/15	11:37	CKT TRIPPED DUE TO OPERATION OF BUS BAR PROT.AT MAHARANI BAGH.
74	25/08/15	10:55	220KV GAZIPUR – MAHA RANIBAGH CKT. –II	25/08/15	11:25	CKT TRIPPED DUE TO OPERATION OF BUS BAR PROT. AT MAHARANI BAGH.
75	25/08/15	10:55	220KV MAHARANIBAGH - MASJID MOTH CKT-I	25/08/15	11:15	CKT TRIPPED DUE TO OPERATION OF BUS BAR PROT.AT MAHARANI BAGH.
76	26/08/15	12:15	220KV MEHRAULI - VASANT KUNJ CKT.-I	26/08/15	12:24	AT MEHRAULI CKT TRIPPED ON D/P,Z-1,DIST-4.946KM. NO TRIPPING AT VASANT KUNJ.
77	26/08/15	13:05	220KV DSIDC BAWANA -NARELA CKT-I	26/08/15	13:52	AT DSIDC BAWANA CKT TRIPPED ON D/P,Z-2,AB&C-PH,DIST-11.32KM. CKT DID NOT TRIP AT NARELA.
78	26/08/15	13:05	220KV DSIDC BAWANA - NARELA CKT-II	26/08/15	13:52	AT DSIDC BAWANA CKT TRIPPED ON D/P,Z-2,AB&C-PH,DIST-11.32KM. CKT DID NOT TRIP AT NARELA.
79	26/08/15	14:51	220KV OKHLA - BTPS CKT. –II	26/08/15	16:32	AT BTPS CKT TRIPPED ON D/P,Z-1,B-PH DIST-2.8KM,E/F. CKT DID NOT TRIP AT OKHLA.

S. N.	OCCURRENCE OF BREAKDOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
80	27/08/15	11:31	220KV NARELA - MANDOLA CKT-I	27/08/15	12:20	AT MANDOLA CKT. TRIPPED ON ZONE-II & III, DIST 15.38KMS. NO TRIPPING AT NARELA
81	27/08/15	12:18	220KV DSIDC BAWANA-NARELA CKT-II	27/08/15	20:11	AT DSIDC BAWANA CKT RIPPED ON DIST. PROT, ZONE-I, DIST 2.6KMS. AT NARELA CVT AVAILABLE
82	27/08/15	12:18	220KV DSIDC BAWANA - NARELA CKT-I	27/08/15	20:11	AT DSIDC BAWANA CKT. TRIPPED ON MAIN I & II, AUTO RECLOSE, TRIP A&B, ZONE-II AT NARELA SUPPLY FAIL
83	28/08/15	10:38	220KV BAWANA-SHALIMARBAGH CKT-II	28/08/15	18:46	AT BAWANA CKT. TRIPPED ON DIST PROT, AT SHALIMARBAGH NO TRIPPING
84	28/08/15	12:25	220KV BAMNAULI - DIAL CKT-II	28/08/15	13:29	AT BAMNAULI CKT. TRIPPED ON DIST PROT, 86AB, B PHASE AE 30C AT DIAL CKT. TRIPPED ON MAIN -I, B PHASE, MAIN -II B PHASEA, DIFFERENTIAL TRIP
85	28/08/15	12:29	400KV BAWANA-MUNDKA CKT-I	28/08/15	18:15	AT MUNDKA CKT. TRIPPED ON ZONE-III, RYB PHASE, AT BAWANA NO TRIPPING
86	29/08/15	11:57	220KV BAWANA - KANJHAWALA CKT	29/08/15	13:24	AT BAWANA CKT. TRIPPED ON ZONE-I, E/F, DIST 3.11KM AT KHANJAWALA NO TRIPPING
87	29/08/15	11:57	220KV BAWANA - KANJHAWALA CKT-2	29/08/15	12:05	AT BAWANA CKT. TRIPPED ON M-2, 86 AT KHANJAWALA CVT FAILED
88	29/08/15	12:25	220KV PRAGATI - SARITA VIHAR CKT-II	29/08/15	12:43	AT SARITA VIHAR CKT .TRIPPED ON 186A, 186B AT PRAGATIR CKT. TRIPPED ON ZONE-I
89	29/08/15	8:52	BAMNAULI 400/220KV 500MVA ICT-II	29/08/15	14:29	ICT TRIPPED ON 30B, 186 A&B
90	29/08/15	12:02	PEERA GARHI 220/33KV 100MVA TX-III	29/08/15	12:15	33KV I/C-III TRIPPED ON 86A 86B
91	31/08/15	8:17	220KV BAWANA- ROHINI CKT-II	31/08/15	16:46	AT BAWANA CKT. TRIPPED ON DIST PROT. ZONE-II, 86 AT ROHINI CKT. TRIPPED ON DIST PROT, A PHAS, 186A

#### 19.6 DETAILS OF 400/220KV BREAKDOWN/TRIPPINGS OCCURRED IN DTL SYSTEM DURING THE MONTH SEPT-2015

SLN O	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
1	1.9.15	16:06	220KV WAZIRABAD - MANDOLA CKT-IV	1.9.15	18:04	AT MANDOLA CKT. TRIPPED ON DIST PROT, ZONE-II DIST 13.28KMS., B PHASE AT WAZIRABAD SUPPLY FAIL
2	1.9.15	16:06	220KV WAZIRABAD - MANDOLA CKT-I	1.9.15	16:37	AT MANDOLA CKT. TRIPPED ON DIST PROT, ZONE-II DIST 17.06KMS., R PHASE AT WAZIRABAD SUPPLY FAIL
3	1.9.15	16:06	220KV WAZIRABAD - MANDOLA CKT-II	1.9.15	16:43	AT MANDOLA CKT. TRIPPED ON DIST PROT, ZONE-II DIST 17.18KMS., B PHASE AT WAZIRABAD SUPPLY FAIL
4	1.9.15	16:06	220KV WAZIRABAD - MANDOLA CKT-III	1.9.15	16:48	AT MANDOLA CKT. TRIPPED ON DIST PROT, ZONE-II DIST 16.97KMS., B PHASE AT WAZIRABAD SUPPLY FAIL
5	2.9.15	19:02	220KV PRAGATI - SARITA VIHAR CKT	2.9.15	19:37	AT PRAGATI CKT TRIPPED ON D/P,Z-1, DIST-7.417KM. AT SARITA VIHAR CKT TRIPPED ON D/P,Z-1,DIST-2.967KM,A/R, 186A&B.
6	2.9.15	23:40	220KV MUNDKA-NAJAFGARH CKT-I	2.9.15	23:49	AT MUNDKA CKT TRIPPED ON 86LO ,86A,A/R. NO TRIPPING AT NAJAFGARH.
7	3.9.15	15:35	PEERA GARHI 220/33KV 100MVA TX-II	3.9.15	16:07	33KV I/C-2 TRIPPED ON 86A & B.
8	4.9.15	12:24	400KV BAWANA-MUNDKA CKT-II	4.9.15	12:35	AT BAWANA CKT. TRIPPED ON 186, CVT AVAILABLE AT MUNDKA NO TRIPPING
9	4.9.15	21:20	KANJHAWALA 220/66KV 100MVA TX-II	5.9.15	10:30	TX MADE OFF DUE TO PROBLEM IN CB COMPRESSOR.
10	6.9.15	11:53	220KV NARELA - MANDOLA CKT-I	6.9.15	12:10	OPERATION OF SPS AT MANDOLA.
11	6.9.15	11:53	220KV GOPALPUR-MANDOLACKT-II	6.9.15	12:08	OPERATION OF SPS AT MANDOLA.
12	6.9.15	11:53	220KV NARELA - MANDOLA CKT-II	6.9.15	12:10	OPERATION OF SPS AT MANDOLA.

SLN O	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
13	6.9.15	11:53	220KV GOPALPUR-MANDOLACKT-I	6.9.15	12:08	OPERATION OF SPS AT MANDOLA.
14	7.9.15	9:31	ROHINI-II 220/66KV 160MVA TX-I	7.9.15	11:04	TX TRIPPED ON 86-A&B.
15	7.9.15	21:15	220KV OKHLA - BTPS CKT. - II	8.9.15	18:37	CKT MADE OFF AT BTPS DUE TO FIRE IN BTPS YARD.
16	8.9.15	23:02	PEERA GARHI 220/33 KV 100MVA TX-III	8.9.15	23:10	33KV I/C-3 TRIPPED ON O/C,86-A&B.
17	9.9.15	11:43	220KV GEETA COLONY - PATPARGANJ CKT-I	9.9.15	12:00	AT GEETA COLONY CKT TRIPPED ON ELTS,27RYB,86. NO TRIPPING AT PPG
18	9.9.15	11:43	220KV GEETA COLONY - PATPARGANJ CKT -II	9.9.15	12:06	AT GEETA COLONY CKT TRIPPED ON D/P,Z-1,DIST-1.354KM AND O/C. AT PPG CKT TRIPPED ON D/P,AB&C-PH,186.
19	10.9.15	15:31	400KV BAWANA-MUNDKA CKT-II	10.9.15	16:10	AT MUNDKA CKT TRIPPED ON 86 A&B, 86 LO A/R. NO TRIPPING AT BAWANA.
20	10.9.15	15:31	400KV BAWANA-MUNDKA CKT-I	10.9.15	22:31	AT BAWANA CKT TRIPPED ON E/F,186. AT MUNDKA CKT TRIPPED ON D/P,Z-1. R-PH WAVE TRAP JUMPER SNAPPED AT MUNDKA.
21	12.9.15	0:41	LODHI RD 220/33KV 100MVA TX-II	12.9.15	1:14	33KV I/C-II TRIPPED ON 86A, 86B, 67N, E/F
22	12.9.15	10:35	220KV DIAL-MEHRULI CKT-II	12.9.15	11:03	AT MEHRULI CKT. TRIPPED ON REL MAIN-II, B PHASE TRIP,ZONE-I AT DIAL, TRIP R PHASE, DIST PROT, ZONE-I, DISTANCE 5.485KMS.
23	12.9.15	10:35	220KV DIAL-MEHRULI CKT-I	12.9.15	11:05	AT MEHRULI CKT TRIPPED ON REL, R PHASE FAULTY, RED MAIN -I, RYB MAIN -II R TRIP AT DIAL C-N, LO PHASE, D/P ZONE-I, DISTANCE 6.2KMS.
24	12.9.15	11:43	MUNDKA 400/220KV 315MVA ICT-II	12.9.15	18:05	ICT TRIPPED ON 86 A&B, I/C-II TRIPPED ON GREB , 86
25	12.9.15	11:50	220KV MUNDKA-NAJAFGARH CKT-I	12.9.15	13:14	AT NAJAFGARH NO TRIPPING AT MUNDKA CKT. TRIPPED ON AUTO RECLOSE, RYB PHASE, 86LO,
26	12.9.15	16:18	KANJHAWALA 66/11KV, 20MVA TX-I	13.9.15	12:22	TX CAUGHT FIRE.
27	12.9.15	16:18	KANJHAWALA 220/66KV 100MVA TX-I	12.9.15	16:31	20MVA TX-I CAUGHT FIRE. 100MVA TX-I MADE OFF AS A SAFETY MEASURE.
28	12.9.15	17:20	220KV WAZIRABAD - MANDOLA CKT-I	12.9.15	17:43	AT WAZIRABAD CKT TRIPPED ON D/P,Z-1,DIST-3.8KM. AT MANDOLA CKT TRIPPED ON D/P,Z-1,DIST-9KM.
29	13.9.15	0:42	PAPPANKALAN-I 220/66KV 100MVA TX-I	13.9.15	16:55	TX TRIPPED ON 30CD BUCHHOLZ ALARM,86A & B
30	13.9.15	12:53	PRAGATI 220/66KV 160MVA TX-II	13.9.15	13:55	TR. TRIPPED ON REF, HV SIDE, 86, 86, TR. TRIPPED WHILE EXTENDING THE SUPPLY BY CLOSING 220KV BUS COUPLER AT 220KV PRAGATI
31	13.9.15	12:50	220KV GEETA COLONY-PATPARGANJ CKT-I	13.9.15	13:20	AT GEETA COLONY CKT. TRIPPED ON DIST PROT, ZONE-I, DIST 2.66KM, O/C AT PATPARGANJ 186, 186, ZONE-I, DIST. 2.226KM.
32	13.9.15	12:50	220KV GEETA COLONY - PATPARGANJ CKT -II	13.9.15	13:50	AT GEETA COLONY : A PHASE, ABC, O/C, POLE DISCREPENCY AT PATPARGANJ : SUPPLY FAIL
33	13.9.15	18:32	220KV MAHARANI BAGH - LODHI ROAD CKT-I	13.9.15	19:33	AT MAHARANI BAGH CKT. TRIPPED ON ZON-2, 3, RYB PHASE, DIST 1.35KM AT LOADHI ROAD NO TRIPPING
34	14.9.15	13:05	BAMNAULI 400/220KV 500MVA ICT-II	14.9.15	13:56	ICT TRIPPED ON 186A&B
35	15.9.15	8:01	LODHI RD 220/33KV 100MVA TX-II	15.9.15	15:58	TR. TRIPPED ON CB POLE DISCREPENCY
36	15.9.15	11:14	220KV DIAL-MEHRULI CKT-II	15.9.15	15:27	AT DIAL CKT. TRIP ON Z-1, B PH FAULT AT MEHRULI CKT. TRIPPED ON ACTIVE GROUP -I, 186, ZONE-I, DISTANCE 6.71KMS.
37	15.9.15	13:51	220KV BAWANA-SHALIMARBAGH CKT-II	15.9.15	14:23	AT BAWANA CKT TRIPPED ON 67N,186A&B. CKT DID NOT TRIP AT SHALIMARBAGH.

SLN O	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
38	15.9.15	13:51	220KVBAWANA-ROHINI CKT-II	15.9.15	18:20	AT BAWANA CKT TRIPPED ON D/P,Z-1,Y-PH,186A&B. Y-PH CONDUCTOR OF THE CKT BROKEN AND FALL ON B-PH OF THE CKT AT TOWER NO-1. CKT DID NOT TRIP AT ROHINI.
39	16.9.15	13:13	220KV PRAGATI - SARITA VIHAR CKT	16.9.15	15:41	AT PRAGATI CKT. TRIPPED ON ACTIVE GROUP -I, DIST TRIP, ZONE-I, DISTANCE 4.421KM AT SARITA VIHAR CKT. TRIPPED ON ABC PHASE, 186A, 186B, ZONE-I, DISTANCE 7.087KMS.
40	16.9.15	16:05	220 KV TRAUMA CENTER-RIDGE VALLEY CKT-1	16.9.15	16:26	TRIPPED WITHOUT INDICATION
41	16.9.15	16:05	220 KV TRAUMA CENTER-RIDGE VALLEY CKT-2	16.9.15	16:26	TRIPPED WITHOUT INDICATION
42	16.9.15	16:05	RIDGE VALLEY 220/66KV 160MVA TX-I	16.9.15	16:34	TRIPPED WITHOUT INDICATION
43	17.9.15	7:21	BAWANA 400/220KV 315MVA ICT-III	17.9.15	18:27	ICT TRIPPED ON 195CB
44	17.9.15	12:40	220KV MEHRAULI - BTPS CKT. - II	17.9.15	16:47	AT BTPS E/F, ZONE-I, DIST 14.6KM AT MEHRAULI ZONE-I DIST PROT, DIST 6.692KM
45	17.9.15	15:02	220KVBAWANA-ROHINI CKT-II	17.9.15	19:51	AT BAWANA CKT. TRIPPED ON DIST PROT, ZONE-I, II & III, E/F, 186A&B AT ROHINI NO TRIPPING
46	17.9.15	15:02	BAWANA 400/220KV 315MVA ICT-VI	17.9.15	15:37	TRIPPED ON 86 A & B
47	17.9.15	15:02	BAWANA 400/220KV 315MVA ICT-V	17.9.15	15:37	TRIPPED ON 86 A & B
48	17.9.15	15:02	BAWANA 400/220KV 315MVA ICT-IV	17.9.15	16:45	TRIPPED ON 86 A & B, O/C
49	17.9.15	15:02	BAWANA 400/220KV 315MVA ICT-II	17.9.15	16:35	TRIPPED ON 86 A & B
50	17.9.15	15:02	BAWANA 400/220KV 315MVA ICT-I	17.9.15	16:23	TRIPPED ON 86 A & B, O/C
51	18.9.15	9:33	220KVBAWANA-ROHINI CKT-I	18.9.15	12:49	AT BAWANA : TRIPED ON 67NX, E/F, 186A&B, AT ROHINI SUPPLY FAIL
52	18.9.15	9:33	220KV ROHINI-SHALIMARBAGH CKT-I	18.9.15	12:47	AT ROHINI O/C, E/F AT SHALIMARBAGH CKT. TRIPPED ON ZONE-I, 186
53	19.9.15	4:03	400KV BAMNAULI-JHATIKARA CKT-I	19.9.15	13:36	AT BAMNAULI CKT. TRIPPED ON DIST PROT, ZONE-I, AT JHATIKRA RN PHASE DIST 15.67KM
54	19.9.15	8:48	KANJHAWALA 66/11KV, 20MVA TX-II	19.9.15	8:51	TRIPPED ON E/F O/C
55	19.9.15	14:49	220KV MUNDKA-NAJAFGARH CKT-I	19.9.15	14:56	AT MUNDKA CKT. TRIPPED ON RYB PHASE INDICATION AT NJF ONLY SUPPLY FAIL
56	20.9.15	3:25	NARELA 66KV DSIDC CKT-II (A-7 NARELA-II)	20.9.15	3:42	TRIPPED ON ZONE-III & IV, R PHASE
57	20.9.15	11:37	220KV MEHRAULI - BTPS CKT. - I	20.9.15	12:53	AT MEHRAULI CKT. TRIPPED ON ACTIVE GROUP -I, ZONE-1, DIST 13.21KM AT BTPS ZONE-I DIST PROT, DIST 5.6KM
58	20.9.15	11:48	220KV GEETA COLONY-PATPARGANJ CKT -II	20.9.15	13:18	AT GEETA COLONY CKT. TRIPPED ON O/C, ZONE-I, DIST 1.554KM AT PATPAR GANJ 86, 186, 186, DIST PROT, DIST 2.8KM
59	20.9.15	11:50	220KV MEHRAULI - BTPS CKT. - II	20.9.15	12:48	AT BTPS CKT. TRIPPED ON ZONE-I, DIST 16.3KM AT MEHRAULI TRIPPED ON DIST PROT, ZONE-I, DIST 5.85KM
60	21.9.15	2:35	NARAINA 33KV SHEKHAWATI CKT-II	21.9.15	12:19	CKT TRIPPED DUE TO LOW GAS PRESSURE IN CB.
61	22.9.15	13:08	220KV ROHINI-SHALIMARBAGH CKT-I	22.9.15	15:58	AT ROHINI CKT TRIPPED ON 67NX,186. CKT DID NOT TRIP AT SHALIMARBAGH.
62	22.9.15	17:40	220KV BAWANA-SHALIMARBAGH CKT-I	22.9.15	18:01	AT BAWANA CKT TRIPPED ON 186 A&B. CKT DID NOT TRIP AT SHALIMARBAGH.
63	22.9.15	17:40	220KV BAWANA-SHALIMARBAGH CKT-II	22.9.15	18:01	AT BAWANA CKT TRIPPED ON 186 A&B. CKT DID NOT TRIP AT SHALIMARBAGH.
64	22.9.15	17:40	BAWANA 400/220KV 315MVA ICT-IV	22.9.15	17:54	220KV I/C-1 OF ICT TRIPPED WITHOUT INDICATION. BUS BAR PROTECTION OPERATED.

SLN O	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
65	22.9.15	17:40	BAWANA 400/220KV 315MVA ICT-I	22.9.15	17:53	ICT TRIPPED ON 86 A&B. 220KV I/C-1 OF ICT TRIPPED WITHOUT INDICATION . BUS BAR PROTECTION OPERATED.
66	23.9.15	23:18	BAWANA 400/220KV 315MVA ICT-II	23.9.15	23:53	ICT TRIPPED ON 86 A&B, 95B,186. 220KV I/C-2 TRIPPED ON CB AUTO TRIP,86.
67	23.9.15	23:18	BAWANA 220/66KV 100MVA TX	23.9.15	23:52	TX TRIPPED WITHOUT INDICATION.
68	24.9.15	0:05	BAWANA 400/220KV 315MVA ICT-II	24.9.15	0:14	ICT TRIPPED ON CB AUTO TRIP.
69	24.9.15	0:26	BAWANA 400/220KV 315MVA ICT-II	24.9.15	3:53	ICT TRIPPED ON 186 A&B, 95B,186.
70	24.9.15	0:26	BAWANA 220/66KV 100MVA TX	24.9.15	3:57	TX TRIPPED ON 96.
71	24.9.15	11:20	NARAINA 220/33KV 100MVA TX-I	24.9.15	13:40	33KV I/C-1 TRIPPED ON E/F,86.
72	24.9.15	18:56	PARKSTREET 220/33KV 100MVA TX-II	24.9.15	19:14	TX TRIPPED ON OVER FLUX.
73	24.9.15	18:56	220KV PRAGATI - SARITA VIHAR CKT-II	24.9.15	21:48	AT PRAGATI CKT TRIPPED ON D/P,186. CKT DID NOT TRIP AT SARITA VIHAR.
74	24.9.15	18:56	220KV PRAGATI - SARITA VIHAR CKT	24.9.15	21:48	AT PRAGATI CKT TRIPPED ON D/P,Z-1,DIST-8.535 KM,186. CKT DID NOT TRIP AT SARITA VIHAR.
75	24.9.15	18:56	220KV SARITA VIHAR - BTPS CKT.-I	28.9.15	14:35	AT BTPS CKT TRIPPED ON D/P,Z-2,DIST-3 KM. CKT DID NOT TRIP AT SARITA VIHAR.
76	24.9.15	20:43	BAWANA 220/66KV 100MVA TX	24.9.15	20:58	TX TRIPPED ON 75A.
77	24.9.15	23:50	SARITA VIHAR 220/66KV 100MVA TX-II	25.9.15	0:10	TX TRIPPED ON POLE DISCREPANCY.
78	26.9.15	18:09	220KV PRAGATI - PARK STREET CKT-II	26.9.15	18:15	CKT. TRIPPED ON BUS BAR PROT.
79	26.9.15	18:09	220KV PRAGATI - PARK STREET CKT-I	26.9.15	18:15	CKT. TRIPPED ON BUS BAR PROT.
80	26.9.15	23:19	BAMNAULI 400/220KV 500MVA ICT-II	27.9.15	9:35	ICT TRIPPED MAIN BREAKER 1652 TRIPPED ON 86A, 86B TIE BREAKER TRIPED ON 186A&B I/C TRIPPED WITHOUT INDICATION
81	27.9.15	6:27	GOPALPUR 220/66KV 100MVA TX-I	27.9.15	16:21	TR. TRIPPED ON HOT POINT ON RYB PHASE HV & LV SIDE
82	27.9.15	15:05	220KV GOPALPUR- MANDOLACKT-I	27.9.15	20:21	AT GOPALPUR CKT. TRIPPED ON DIST PROT, DIST 6.3KM, ZONE-I, RYB PH GEN. TRIP AT MANDOLA CKT. TRIPPED ON DIST PROT, R PH DIST 21.5KMS, ZONE-II
83	28.9.15	10:37	SHALIMAR BAGH 33KV RANI BAGH CKT-II	28.9.15	11:35	CKT. TRIPPED ON E/F
84	29.9.15	12:50	GAZIPUR 220/66KV 160MVA TX-I	29.9.15	13:05	I/C TRIPPED ON 86A&B
85	29.9.15	12:50	GAZIPUR 220/66KV 160MVA TX-I	29.9.15	18:09	TR. TRIPPED ON 50/51N, 86YB, 86, 95, PUMP FAIL, O/C, E/F
86	29.9.15	12:50	GAZIPUR 220/66KV 100MVA TX-II	29.9.15	13:05	I/C TRIPPED ON 86A&B
87	30.9.15	19:54	BAMNAULI 400/220KV 500MVA ICT-II	30.9.15	21:46	ICT TRIPPED ON 186 A&B, TRIP GROUP-I

#### 19.7 DETAILS OF 400/220KV BREAKDOWN/TRIPPINGS OCCURRED IN DTL SYSTEM DURING THE MONTH OCTOBER -2015

SLN O	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
1	2.10.15	9:32	PAPPANKALAN-I 220/66KV 100MVA TX-I	2.10.15	11:32	I/C TRIP ON 95C, TRIP CKT. FAULTY, GAS PRESSURE LOW BREAKER DID NOT TRIP
2	4.10.15	5:42	GAZIPUR 220/66KV 160MVA TX-I	5.10.15	17:50	TR. TRIPPED ON 86A, 87, 86
3	4.10.15	12:00	220KV PRAGATI - SARITA VIHAR CKT	4.10.15	12:16	AT PRAGATI : DIST PROT. ZONE-I, DIST. 1.306KM. AT SARITA VIHAR : DIST PROT, ZONE-I, DIST 8.274KM
4	8.10.15	12:31	220KV MEHRAULI - VASANT KUNJ CKT. - II	9.10.15	3:10	AT VASANT KUNJ CKT. TRIPPED ON R PHASE ZONE-I, 186 AT MEHRAULI CKT. TRIPPED ON ZONE-2, R&B PHASE, 186AB, FLASH ON CB CLAMP OF R PHASE

SLN O	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
5	9.10.15	14:18	220KV ROHINI-SHALIMARBAGH CKT-I	9.10.15	16:58	AT ROHINI CKT. TRIPPED ON DIST PROT, ZONE-I AT SHALIMARBAGH CKT. DUE TO BLAST REPORTED
6	10.10.15	12:04	220KV MEHRAULI - BTPS CKT. - I	10.10.15	17:50	AT MEHRAULI TRIP ON ZONE-II, 186-186, DIST 14.35KM AT BTPS CKT. TRIPPED ON E/F, ZONE-I, B PHASE DIST. 5.3KM
7	10.10.15	13:40	220KV MEHRAULI - BTPS CKT. - II	10.10.15	17:00	AT BTPS CKT. TRIPE ON E/F, R&Y PH, DIST 7.93KM AT MEHRAULI CKT. TRIP ON DIST PROT. ZONE-1, DIST 12.88KM
8	13.10.15	12:58	220KV PRAGATI - PARK STREET CKT-I	13.10.15	14:41	AT PRAGATI CKT. TRIPPED ON 93 AT PARK STREET NO TRIPPING
9	13.10.15	12:58	220KV PRAGATI - SARITA VIHAR CKT-II	13.10.15	13:30	AT PRAGATI CKT. TRIPPED ON 96T, 196 AT SARITA VIHAR NO TRIPPING
10	13.10.15	12:58	220KV PRAGATI - SARITA VIHAR CKT	13.10.15	13:25	AT PRAGATI CKT. TRIPPED ON 96T, 196 AT SARITA VIHAR NO TRIPPING
11	13.10.15	12:58	220KV PRAGATI - PARK STREET CKT-II	13.10.15	13:26	AT PRAGATI CKT. TRIPPED ON 96 AT PARK STREET NO TRIPPING
12	14.10.15	14:35	400KV MUNDKA-JHAKTKRA CKT-II	14.10.15	14:57	AT MUNDKA CKT. TRIPPED ON 86AB AT JHAKTKRA NO TRIPPING
13	14.10.15	15:20	220KV MUNDKA-PEERAGARHI CKT-II	14.10.15	15:27	AT MUNDKA : WITHOUT INDICATION AT PEERAGARHI : NO TRIPPING
14	16.10.15	9:30	SARITA VIHAR 66/11KV, 20MVA TX-I	16.10.15	9:55	TR. TRIPPED ON HV/LV , 64, 86
15	16.10.15	13:40	220KV BAMNAULI - DIAL CKT-I	16.10.15	13:55	AT DIAL : ON ONE-1, AT BAMNAULI :186 A, B, ZONE-1
16	18.10.15	9:20	SUBZI MANDI 11KV HINDU RAO HOSPITAL	18.10.15	9:25	UFR OPERATED DUE TO VT FUSE FAILURE ON I/C-I
17	18.10.15	9:20	SUBZI MANDI 33KV B. G. ROAD CKT-I	18.10.15	9:25	UFR OPERATED DUE TO VT FUSE FAILURE ON I/C-I
18	18.10.15	9:20	SUBZI MANDI 33KV B. G. ROAD CKT-II	18.10.15	9:25	UFR OPERATED DUE TO VT FUSE FAILURE ON I/C-I
19	18.10.15	9:20	SUBZI MANDI 33KV SHAHZADA BAGH CKT-II	18.10.15	9:25	UFR OPERATED DUE TO VT FUSE FAILURE ON I/C-I
20	18.10.15	9:20	SUBZI MANDI 33KV TRIPOLIA CKT	18.10.15	9:25	UFR OPERATED DUE TO VT FUSE FAILURE ON I/C-I
21	18.10.15	9:20	SUBZI MANDI 11KV PARAG ICE FACTORY	18.10.15	9:25	UFR OPERATED DUE TO VT FUSE FAILURE ON I/C-I
22	18.10.15	9:20	SUBZI MANDI 11KV SUBZI MANDI	18.10.15	9:25	UFR OPERATED DUE TO VT FUSE FAILURE ON I/C-I
23	18.10.15	15:55	SARITA VIHAR 66/11KV, 20MVA TX-I	18.10.15	16:15	TR. TRIPPED ON 36, AND 11KV I/C-I TRIPPED ON INTER TRIPPING
24	20.10.15	11:21	220KV DSIDC BAWANA NARELA CKT-II	20.10.15	11:33	AT NARELA : O/C, 67CN, B PHASE , 186 AT DSIDC BAWANA NO TRIPPING
25	20.10.15	11:21	220KV BAWANA-DSIDC BAWANA CKT-I	20.10.15	15:48	AT BAWANA CKT. TRIPPED ON DIST PROT, 21XR, , ZONE-I, DIST 1.22KMS. AT DSIDC BAWANA CKT. TRIPPED ON DIST PROT, ZONE-I, B PHASE , DIST 3.19KM
26	20.10.15	11:21	BAWANA 400/220KV 315MVA ICT-II	20.10.15	12:17	ICT TRIPPED ON 186 A&B, 86A 220KV I/C-II TRIPPED ON CB AUTO TRIP
27	20.10.15	11:21	BAWANA 400/220KV 315MVA ICT-III	20.10.15	11:34	220KV I/C-III TRIPPED ON O/C, E/F
28	20.10.15	12:12	BAWANA 220/66KV 100MVA TX	20.10.15	12:21	TR. TRIPPED ON 996, BUS BAR PROT.
29	20.10.15	13:32	220KV MEHRAULI - BTPS CKT. - II	20.10.15	14:15	AT MEHRAULI CKT. TRIPPED ON ACTIVE GROUP -I, START PHASE AN, TRIP PHASE ABC, DIST PROT, ZONE-I DIST 7.743KM AT BTPS CKT. TRIPPED ON DIST PROT, ZONE-I, R PHASE
30	20.10.15	15:10	PATPARGANJ 220/33KV 100MVA TX-III	20.10.15	15:25	I/C TRIPPED ON 67AX, ALONGWITH 33KV BUS COUPLER TRIPPED ON 67AN AND 67NX
31	21.10.15	11:29	400KV BAWANA-MUNDKA CKT-II	21.10.15	12:02	AT BAWANA CKT. TRIPED ON DIRECT TRIP, 186 A&B
32	21.10.15	17:58	GOPALPUR 220/33KV 100MVA TX-II	21.10.15	18:44	TR. TRIPPED ON O/C, R-B PHASE
33	21.10.15	17:58	GOPALPUR 33KV INDRA VIHAR CKT-I	21.10.15	19:31	CKT. TRIPPED ON Y PHASE, DIST PROT, DIST 0.4KM, LA BRUST
34	22.10.15	20:15	220KV ROHINI-SHALIMARBAGH CKT-II	22.10.15	20:29	AT SHALIMARBAGH CKT. TRIPPED ON DIST PROT. ZONE-II, 186 AT ROHINI NO TRIPPING

SLN O	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
35	23.10.15	13:04	220KV KANJAWALA-NAJAFGARH CKT	23.10.15	13:45	AT KHANJAWALA : RYB PHASE, ZONE-I AT NAJAFGARH NO TRIPPING
36	23.10.15	13:04	220KV MUNDKA-KANJAWALA CKT-I	23.10.15	13:45	AT KHANJAWALA : ZONE-I, RB PH AT MUNDKA NO TRIPPING
37	24.10.15	23:08	220KV WAZIRABAD-GEETA COLONY CKT-II	24.10.15	23:39	AT WAZIRABAD : DIST PROT, ZONE-I AT GEETA COLONY NO TRIPPING
38	24.10.15	23:08	220KV GEETA COLONY-PATPARGANJ CKT -II	25.10.15	16:20	AT GEETA COLONY CKT. TRIPED ON TRIP ABC,O/C, E/F, DIST TRIP A AT PAT PARGANJ CKT. TRIPPED ON DIST PROT, ZONE-I, 186, 186, ACTIVE TRIP, ABC
39	24.10.15	23:42	IP-220/33KV 100MVA TX-III	25.10.15	0:45	I/C-III TRIPPED ON 86
40	24.10.15	23:42	IP-IG STADIUM CKT-II (BAY-33)	24.10.15	23:55	CKT. TRIPPED DUE TO TRIPPING OF 33KV I/C-III
41	24.10.15	23:42	IP-IG STADIUM CKT-I (BAY-29)	24.10.15	23:55	CKT. TRIPPED DUE TO TRIPPING OF 33KV I/C-III
42	25.10.15	7:50	DSIIDC BAWANA 220/66KV 100MVA TX-II	25.10.15	12:38	S/D ALONG WITH 220KV BUS-1 FOR ALIGNMENT OF BUS ISOLATOR.
43	25.10.15	11:52	220KV BAMNAULI-NAJAFGARH CKT-II	25.10.15	12:25	AT BAMNAULI CKT. TRIPPED ON 186, C PH, ZONE-1, AT NAJAFGARH NO TRIPPING
44	25.10.15	12:17	220KV BAWANA-DSIIDC BAWANA CKT-I	25.10.15	15:48	AT BAWANA CKT. TRIPPED ON DIST PROT, ZONE-I, DIST 0.74KM, R PHASAE AT DSIDC BAWANA CKT. TRIPPED ON DIST PROT, 86, 86, DIST 4.338KM
45	25.10.15	12:17	BAWANA 400/220KV 315MVA ICT-II	25.10.15	14:20	ICT TRIPPED ON 186 A&B
46	25.10.15	12:57	220KV NARELA - MANDOLA CKT-I	25.10.15	15:04	AT MANDOLA CKT. TRIPPED ON R PH, E/F AT NARELA CVT AVAILABLE BUT BREAKER PROBLEM AT NARELA END.
47	26.10.15	2:50	400KV BALLABHGARH-BAMNAULI CKT-II	26.10.15	6:33	AT BAMNAULI CKT. TRIPPED ON DIST PROT, 186A&B, NOT TRIPPING AT BALLABGARH
48	26.10.15	10:58	220KV MEHRAULI - BTPS CKT. - II	26.10.15	13:04	AT MEHRAULI CKT. TRIPPED ON 3 PHASE, DIST PROT, DIST 12.7KM, ZONE-I, 186 AT BTPS ZONE-I, DIST 4.2KM
49	26.10.15	16:04	220KV SHALIMAR BAGH -WAZIRPUR CKT-I	26.10.15	16:55	AT WAZIRPUR CKT. TRIPPED ON LOW GAS PRESSURE AT SHALIMARBAGH SUPPLY FAIL
50	26.10.15	16:04	WAZIRPUR 220/33KV 100MVA TX-I	26.10.15	16:55	TR. TRIPPED 86 A&B
51	28.10.15	21:55	400KV BALLABHGARH-BAMNAULI CKT-II	28.10.15	22:08	AT BAMNAULI CKT. TRIPPED ON 3 PHASE, OVER VOLTAGE, 186 A&B
52	28.10.15	23:26	400KV BALLABHGARH-BAMNAULI CKT-II	29.10.15	7:21	AT BAMNAULI CKT. TRIPPED ON 3 PHASE, O/V, 186A&B
53	29.10.15	0:22	HARSH VIHAR 400/220KV 315MVA ICT-III	29.10.15	5:39	ICT TRIPPED ON BUCHLOZ, 86
54	29.10.15	1:32	SUBZI MANDI 33/11KV, 16MVA TX-I	29.10.15	5:58	TR. TRIPPED ON BUCHLOZ

#### 19.8 DETAILS OF 400/220KV BREAKDOWN/TRIPPINGS OCCURRED IN DTL SYSTEM DURING THE MONTH NOV.- 2015

SLN O	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
1	4.11.15	21:15	OKHLA 66/11KV, 20MVA TX-II	5.11.15	2:07	TX TRIPPED ON R-PH O/C, 86. FLASH OCCURRED ON 11KV BUS-2.
2	5.11.15	3:10	220KV DIAL-MEHRAULI CKT-I	7.11.15	20:35	AT MEHRAULI CKT TRIPPED ON B-PH, D/P,Z-1,DIST-6.141KM. AT DIAL CKT TRIPPED ON D/P,Z-1.
3	5.11.15	7:47	220KV GOPALPUR-SUBZI MANDI CKT-II	5.11.15	8:40	AT GOPALPUR CKT TRIPPED ON D/P,Z-1,DIST-0.3KM. CKT DIDNOT TRIP AT SUBZIMANDI.
4	5.11.15	15:50	VASANT KUNJ 220/66KV 100MVA TX-III	5.11.15	16:10	66KV I/C-3 TRIPPED ON O/C,Y&B-PH,86. MONKEY ELECTROCUTED IN THE YARD.

SLN O	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
5	6.11.15	4:27	PAPPANKALAN-I 66/11KV, 20MVA TX-I	6.11.15	9:30	TX TRIPPED ON OLTC BUCHHOLZ.
6	7.11.15	17:59	HARSH VIHAR 220/66KV 160MVA ICT-1	7.11.15	20:00	66KV I/C-1 OF TX-1 TRIPPED ON LBB PROTECTION.
7	7.11.15	17:59	HARSH VIHAR 66KV GHONDA CKT.-1	7.11.15	22:54	CKT TRIPPED ON LBB PROTECTION.
8	7.11.15	17:59	HARSH VIHAR 220/66KV 160MVA ICT-3	7.11.15	20:00	66KV I/C-3 OF TX-3 TRIPPED ON LBB PROTECTION.
9	7.11.15	17:59	HARSH VIHAR NAND NAGARI CKT-1	7.11.15	22:54	CKT TRIPPED ON LBB PROTECTION.
10	7.11.15	17:59	HARSH VIHAR 220/66KV 160MVA ICT-2	7.11.15	20:00	66KV I/C-2 OF TX-2 TRIPPED ON LBB PROTECTION.
11	7.11.15	17:59	HARSH VIHAR NAND NAGARI CKT-2	7.11.15	22:54	CKT TRIPPED ON LBB PROTECTION.
12	9.11.15	12:40	220KV BAMNAULI - DIAL CKT-I	9.11.15	21:27	AT BAMNAULI CKT TRIPPED ON D/P,Z-1,186,AB-PH. CKT DID NOT TRIP AT DIAL.
13	9.11.15	12:40	220KV DIAL- MEHRAULI CKT-I	9.11.15	21:27	AT MEHRAULI CKT TRIPPED ON D/P,Z-1,DIST-6.353KM. CKT WAS IN OFF POSITION AT DIAL.
14	10.11.15	10:17	400KV BALLABHGARH- BAMNAULI CKT-I	28.11.15	9:51	S/D OF CKT FOR MAINTENANCE. WHILE NORMALIZING S/D CKT TRIPPED ON D/P,Z-1,2&3,SOTF,186A&B. FIRE REPORTED ON CABLE PORTION OF CKT. CKT CHARGED ON ERS.
15	12.11.15	12:15	KANJHAWALA 66/11KV, 20MVA TX-II	12.11.15	12:30	11KV I/C OF TX TRIPPED ON E/F.
16	13.11.15	3:00	220KV GAZIPUR - MAHARANIBAGH CKT. -II	13.11.15	5:42	AT GAZIPUR CKT TRIPPED ON D/P,Z-1. CKT DID NOT TRIP AT MAHARANIBAGH.
17	15.11.15	14:59	220KV GAZIPUR - BTPS CKT	15.11.15	17:33	AT BTPS CKT TRIPPED ON R-PH,E/F. CKT WAS IN OFF POSITION AT GAZIPUR S/STN.
18	15.11.15	19:54	GEETA COLONY 220/33KV 100MVA TX-I	16.11.15	11:29	33KV I/C-1 OF TX MADE OFF AS 195RYB,295RYB AND 30B RELAY APPEARED.
19	15.11.15	21:47	220KV MAHARANI BAGH-TRAUMA CENTER CKT-I	15.11.15	22:12	CKT TRIPPED ON GENERAL TRIP. CKT DID NOT TRIP AT TRAUMA CENTER.
20	15.11.15	21:48	220KV MAHARANI BAGH - ELECTRIC LANE CKT-I	15.11.15	22:12	AT MAHARANI BAGH CKT TRIPPED ON GENERAL TRIP. CKT DID NOT TRIP AT ELECTRIC LANE.
21	16.11.15	1:55	220KV MAHARANI BAGH-TRAUMA CENTER CKT-I	16.11.15	6:12	AT MAHARANI BAGH CKT. TRIPPED ON OVER VOLTAGE AT TRAUMA CENTER NO TRIPPING
22	16.11.15	20:26	220KV BAWANA - KANJHAWALA CKT	17.11.15	11:28	AT BAWANA CKT. TRIPPED ON DIST PROT, ZONE-II, DIST 6.13KM AT KHANJAWALA CKT. PUT OFF MANUALLY
23	16.11.15	20:26	220KV BAWANA - KANJHAWALA CKT-2	17.11.15	17:40	AT BAWANA CKT TRIPPED ON DIST PROT, ZONE-II, DIST 0.12IJ AT KHANJAWALA CKT TRIPPED ON MAIN DIST. OPERATE , RYB
24	16.11.15	20:26	BAWANA 400/220KV 315MVA ICT-II	17.11.15	18:38	ICT TRIPPED ON GROUP A 86A, GROUP B 86B, BUCHOLZ
25	17.11.15	6:25	LODHI RD 33/11KV, 16MVA TX-III	17.11.15	12:50	11KV I/C-III TRIPPED ON OVER CURRENT
26	18.11.15	18:27	220KV SHALIMAR BAGH -WAZIRPUR CKT-II	18.11.15	18:50	AT SHALIMARBAGH CKT TRIPPED ON D/P,186. CKT DIDNOT TRIP AT BAWANA.
27	18.11.15	18:27	220KV BAWANA- DSIIDC BAWANA CKT-I	19.11.15	18:13	AT DSIDC BAWANA CKT TRIPPED ON D/P,Z-2, A,B&C-PH. R-PH LA OF CKT DAMAGED.
28	18.11.15	18:27	220KV BAWANA- SHALIMARBAGH CKT-I	18.11.15	19:10	AT SHALIMARBAGH CKT TRIPPED ON D/P,186. CKT DIDNOT TRIP AT BAWANA.
29	18.11.15	18:27	BAWANA 400/220KV 315MVA ICT-V	18.11.15	19:05	220KV I/C-5 OF ICT TRIPPED ON E/F.
30	18.11.15	18:27	BAWANA 400/220KV 315MVA ICT-IV	18.11.15	19:56	ICT TRIPPED ON 186A&B. 220KV I/C-4 TRIPPED ON INTER TRIP.

SLN O	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
31	18.11.15	18:27	BAWANA 400/220KV 315MVA ICT-II	20.11.15	16:26	ICT TRIPPED ON BUCHHOLZ,186A&B. 220KV I/C-2 TRIPPED ON INTER TRIP.
32	18.11.15	18:27	BAWANA 400/220KV 315MVA ICT-VI	18.11.15	19:08	220KV I/C-6 OF ICT TRIPPED ON E/F.
33	20.11.15	16:44	400KV BALLABHGARH -BAMNAULI CKT-II	20.11.15	17:10	AT BAMNAULI CKT TRIPPED ON 85LO,186.
34	21.11.15	15:15	220KV PRAGATI - SARITA VIHAR CKT	21.11.15	19:25	AT PRAGATI CKT. TRIPPED ON DIST PROT., AB PHASE DIST 6.31KM, 186, 186 AT SARITA VIHAR DIST PROT, ZONE-1, A&B PHASE, 86 A&B, DIST 2.681KMS
35	21.11.15	15:25	PARKSTREET 220/33KV 100MVA TX-II	21.11.15	15:36	TR. TRIPPED ON 90D, 80 DC-1, 86A, 33KV I/C-II TRIPPED ON INTER TRIPPING
36	22.11.15	8:13	PAPPANKALAN-I 220/ 66KV 100MVA TX-IV	22.11.15	8:33	66KV I/C-IV TRIPPED ON 86, E/F, TR. -IV TRIPPED WITHOUT INDICATION
37	22.11.15	21:38	220KV BAMNAULI- NAJAFGARH CKT-I	22.11.15	21:46	CKT. TRIPPED ON 186 A&B, 86 , BACKUP PROT.
38	22.11.15	21:38	220KV BAMNAULI- NARAINA CKT-II	22.11.15	21:45	CKT. TRIPPED ON 186 A&B, 86 , BACKUP PROT.
39	24.11.15	5:35	NARAINA 220/33KV 100MVA TX-I	24.11.15	5:52	I/C TRIPPED ON JERK
40	24.11.15	5:35	NARAINA 220/33KV 100MVA TX-II	24.11.15	5:52	I/C TRIPPED ON JERK
41	24.11.15	5:35	NARAINA 220/33KV 100MVA TX-III	26.11.15	15:40	I/C TRIPPED ON JERK
42	25.11.15	14:19	220KV ROHINI- SHALIMARBAGH CKT-I	25.11.15	14:31	AT ROHINI CKT. TRIPPED ON 186A, 186B, ZONE-II AT SHALIMARBAGH NO TRIPPING
43	27.11.15	10:50	220KV PRAGATI - I.P.CKT - I	27.11.15	18:17	AT PRAGATI CKT. TRIPPED ON ACTIVE GROUP -I, DIST PROT, TRIP ABC AT IP TRIPPED ON 86 ABC, DIST PROT,
44	29.11.15	6:58	220KV BAWANA - KANJHAWALA CKT-2	29.11.15	9:03	AT BAWANA DIST PROT, AUTO RE CLOSE, VT FUSE ALARM, DIST 2.89 KM AT KANJHAWALA, ZONE-I, R&Y PHASE
45	29.11.15	7:24	220KV BAWANA - KANJHAWALA CKT	29.11.15	9:03	AT KANJHAWALA NO TRIPPING AT BAWANA DIST PROT, AUTO RECLOSE LOCK OUT DIST 2.82KM
46	30.11.15	5:50	220KV WAZIRABAD- GEETA COLONY CKT-I	30.11.15	6:16	AT WAZIRABAD TRIPPED ON RY PH, START R PH., ZONE II & III AT GEETA COLONY TRIP ON ATIVE GROUP -I, TRIP ABC, O/C
47	30.11.15	6:25	NAJAFGARH 66/11KV, 20MVA TX-III	30.11.15	6:32	TR. TRIPPED ON INTERTRIPPING
48	30.11.15	7:05	PAPPANKALAN-I 220/ 66KV 100MVA TX-IV	30.11.15	11:10	TR. TRIPPED ON 80A
49	30.11.15	7:05	PAPPANKALAN-I 220/ 66KV 100MVA TX-III	30.11.15	8:10	TR. TRIPPED ON 80A

**9.9 DETAILS OF 400/220KV BREAKDOWN/TRIPPINGS OCCURRED IN DTL SYSTEM DURING THE MONTH DECEMBER - 2015**

SLN O	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
1	1.12.15	8:26	220KV GEETA COLONY - PATPARGANJ CKT -II	1.12.15	8:58	AT PPG CKT TRIPPED ON D/P,Z-1,DIST- 1.52KM,186.
2	3.12.15	8:25	VASANT KUNJ 66/11KV, 20MVA TX-I	3.12.15	12:40	TX TRIPPED ON 30D AND 11KV I/C-1 TRIPPED WITHOUT INDICATION.
3	5.12.15	12:45	220KV PRAGATI - PARK STREET CKT-I	5.12.15	18:23	CKT MADE OFF AS GAS PRESSURE WAS ZERO IN Y-PH CABLE.
4	5.12.15	13:33	PAPPANKALAN-I 220/ 66KV 100MVA TX-IV	5.12.15	21:30	TX TRIPPED WITHOUT INDICATION AND 66KV I/C-4 TRIPPED ON 86.
5	5.12.15	13:33	PAPPANKALAN-I 66/11KV, 20MVA TX-III	5.12.15	21:30	TX TRIPPED ON DIFFERENTIAL,86.
6	5.12.15	14:34	220KV MAHARANI BAGH - LODHI ROAD CKT-I	6.12.15	7:52	AT MAHARANI BAGH CKT TRIPPED ON D/P,Z-1. R-PH LA DAMAGED AT MAHARANI BAGH. AT LODHI ROAD CKT TRIPPED ON 167NX,186A&B.

SLN O	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
7	5.12.15	14:39	LODHI RD 220/33KV 100MVA TX-II	5.12.15	14:45	33KV I/C-2 OF TX TRIPPED ON 86A&B.
8	7.12.15	5:56	220KV SARITA VIHAR - BTPS CKT.-II	7.12.15	9:09	AT BTPS CKT. TRIPPED ON ZONE-1,Y PH DIST.2.2KM AT SARITA VIHAR ZONE-I, 186A, 186C, B PH E/F, DIST 1.079KM
9	7.12.15	7:27	220KV MEHRAULI - BTPS CKT. - II	7.12.15	8:19	AT BTPS NO TRIPPING AT MEHRAULI ZONE-II, DIST PROT, TRIP PHASE ABC, DIST 15.3KM, 186, 186
10	7.12.15	22:00	NARELA 66/11KV, 20MVA TX-II	8.12.15	3:13	TR. TRIPPED WITH I/C ON BACK UP PROTECTION TRIP O/C
11	8.12.15	9:32	KANJHAWALA 66/11KV, 20MVA TX-I	8.12.15	9:38	TR. TRIPPED ON 86, 30G OLTC
12	8.12.15	14:05	NARELA 220/66KV 100MVA TX-III	8.12.15	14:24	TRIPPED WITHOUT INDICATION
13	10.12.15	3:39	220KV WAZIRABAD- GEETA COLONY CKT-II	10.12.15	3:54	AT WAZIRABAD- GENERAL TRIP R Y B PH ,START B PH , START NEUTRAL ,Z-1 TRIP, DIST:2.0 KM AT G.COLONY- DIST.PROTECTION ,ZONE-1 .DISTANCE- 1.613KM ,EARTH FAULT START IN.
14	12.12.15	4:03	220KV BAWANA - KANJHAWALA CKT-2	12.12.15	7:38	AT BAWANA ZONE-I, B PHSE, DISTANCE 2.89KM AT KHANJAWALA ZONE-I, RY TRIP CVT AVAILABLE
15	12.12.15	5:38	220KV WAZIRABAD- GEETA COLONY CKT-I	12.12.15	7:40	AT GEETA COLONY ZONE-I, DIST 424.7MTS, 86 AT WAZIRABAD ZONE-I, DIST 3.6KM
16	12.12.15	5:52	220KV BAMNAULI- NARAINA CKT-II	12.12.15	12:51	AT NARAINA DIST PROT, ZONE-I, PT FAIL AT BAMNAULI DIST PROT, ZONE-I, CBPOLE DISCRIPANCY, DIST 35.96KM
17	12.12.15	6:09	220KV NARELA-DSIDC BAWANA CKT-II	12.12.15	14:30	AT NARELA NO TRIPPING AT DSIDC 21MI, 21M2 B PHASE
18	12.12.15	6:23	220KV MEHRAULI - VASANT KUNJ CKT.-I	12.12.15	7:45	AT MEHRAULI CKT. TRIPPED ON 186AB, AR, ZONE-II ,BPHASE, DIST PROT, AT VASANT KUNJ SUPPLY FAIL
19	12.12.15	6:40	DSIDC BAWANA 220/ 66KV 100MVA TX-III	12.12.15	8:37	TR. TRIPPED ON 86, E/F, O/C
20	12.12.15	6:50	PATPARGANJ 33/11KV, 20MVA TX	12.12.15	10:54	TR. TRIPPED ON 86, 30A, BUCH, 30B
21	12.12.15	6:55	VASANT KUNJ 220/66KV 100MVA TX- III	12.12.15	11:05	TR. TRIPPED ON LV, REF, 87X, 86
22	12.12.15	7:15	220KV DSIDC BAWANA - BAWANA CKT-II	12.12.15	12:16	AT BAWANA DIST PROT, DIST 1.19KM AT DSIDC SUPPLY FAIL
23	12.12.15	7:15	BAWANA 400/220KV 315MVA ICT-IV	12.12.15	9:34	ICT TRIPPED ON 86 I/C TRIPPED ON 86
24	12.12.15	8:35	220KV BAWANA - KANJHAWALA CKT-2	12.12.15	17:36	AT BAWANA DIST PROT, 86 AT KHANJAWALA NO TRIPPING
25	13.12.15	4:20	NARELA 66/11KV, 20MVA TX-II	13.12.15	6:05	TR. TRIPPED ON OLTC BUCH
26	14.12.15	23:25	220KV SARITA VIHAR - BTPS CKT.-II	14.12.15	23:30	AT SARITA VIHAR TRIPPED DUE TO LOW GAS PRESSURE ALARM AT BTPS NO TRIPPING
27	15.12.15	9:24	LODHI RD 33/11KV, 20MVA TX-I	15.12.15	15:23	11KV I/C TRIPPED WITHOUT INDICATION
28	15.12.15	14:45	PAPPANKALAN-I 66/11KV, 20MVA TX-III	15.12.15	15:35	TR. TRIPPED ON REF LV
29	17.12.15	6:50	220KV WAZIRABAD - MANDOLA CKT-IV	17.12.15	7:20	AT WAZIRABAD DIST PROT, ZONE-I, DIST 8.375KM AT MANDOLA NO TRIPPING
30	20.12.15	4:30	220KV BAWANA- SHALIMARBAGH CKT- II	20.12.15	6:47	AT SHALIMARBAGH CKT TRIPPED WITHOUT INDICATION. CKT REMAINED CHARGED FROM BAWANA.
31	20.12.15	5:48	220KV SHALIMAR BAGH - DMRC CKT	20.12.15	6:21	AT SHALIMARBAGH CKT TRIPPED WITHOUT INDICATION.
32	22.12.15	16:48	PAPPANKALAN-II 220/66KV 100MVA TX-I	22.12.15	15:20	TX TRIPPED ON LBB,86 AND 66KV I/C-1 TRIPPED ON LBB,86.B-PH CVT OF 66KV BUS BUS-2 BAMAGED.
33	22.12.15	16:48	PAPPANKALAN-II 220/66KV 100MVA TX-II	22.12.15	15:20	TX TRIPPED ON LBB,86 AND 66KV I/C-2 TRIPPED ON O/C, LBB,86. B-PH CVT OF 66KV BUS BUS-2 BAMAGED.

SLN O	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
34	22.12.15	16:48	PAPPANKALAN-II 220/66KV 160MVA TX-I	22.12.15	19:50	66KV I/C-1 OF 160MVA TX-1 TRIPPED ON O/C,E/F.
35	25.12.15	0:10	NARAINA 220/33KV 100MVA TX-I	25.12.15	0:28	33KV I/C-1 OF TX TRIPPED ON O/C,86.
36	25.12.15	0:10	NARAINA 33KV PANDAV NAGAR CKT	25.12.15	18:15	CKT TRIPPED ON O/C,E/F. Y-PH JUMPER OF BUS-1 ISOLATOR DAMAGED.
37	25.12.15	0:10	NARAINA 220/33KV 100MVA TX-III	25.12.15	17:45	33KV I/C-3 OF TX TRIPPED ON O/C,86.
38	26.12.15	8:26	GOPALPUR 66KV JAHANGIRPURI CKT-II	26.12.15	18:11	AT GOPALPUR CKT TRIPPED ON E/F,R-PH D/P,DIST-0.2KM. OPGW SNAPPED AT GOPALPUR.
39	27.12.15	21:12	400KV BAWANA-MUNDKA CKT-I	27.12.15	22:39	AT MUNDKA CKT TRIPPED DUE TO OPERATION OF BUS BAR PROTECTION. CVT AVAILABLE AT MUNDKA.
40	28.12.15	9:32	PATPARGANJ 220/66KV 100MVA TX-II	28.12.15	10:15	66KV I/C-2 TRIPPED ON O/C. MONKEY ELECTROCUTED IN YARD.
41	29.12.15	12:36	220KV BAWANA-ROHINI CKT-II	29.12.15	15:45	AT BAWANA CKT TRIPPED ON D/P,Z-1,R&Y-PH,DIST-7.45KM, 186A&B.
42	29.12.15	15:35	SUBZI MANDI 220/33KV 100MVA TX-II	29.12.15	15:50	TX TRIPPED ON OC,86.
43	30.12.15	16:15	220KV GAZIPUR-PATPARGANJ CKT	30.12.15	16:22	AT GAZIPUR CKT TRIPPED ON RX-ME18 GENERAL TRIP. CKT DIDNOT TRIP AT PATPARGANJ.
44	31.12.15	3:10	IP- 220/33KV 100MVA TX-I	31.12.15	3:30	33KV I/C-1 OF TX TRIPPED ON E/F.

**19.10 DETAILS OF 400/220KV BREAKDOWN/TRIPPINGS OCCURRED IN DTL SYSTEM DURING THE MONTH JANUARY -2016**

SLN O	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
1	5.1.16	3:10	220KV DIAL-MEHRAULI CKT-I	2.1.16	21:59	AT MEHRAULI CKT TRIPPED ON B-PH,D/P,Z-1,DIST-6.141KM. AT DIAL CKT TRIPPED ON D/P,Z-1.
2	2.1.16	6:50	PAPPANKALAN-I 66/11KV, 20MVA TX-I	2.1.16	10:20	TRANSFORMER TRIPPED ON BUCHHOLZ RELAY
3	2.1.16	12:40	220KV GAZIPUR-MAHARANIBAGH CKT.-I	1.1.16	12:45	CKT. TRIPPED WITHOUT INDICATION
4	3.1.16	5:30	220KV BAWANA - KANJHAWALA CKT	3.1.16	13:30	AT BAWANA CKT. TRIPPED ON AUTORE CLOSE LOCK OUT, DIST PROT, DIST 2.52 KM AT KHANJAWALA CKT. TRIPPED ON DIST PROT, ZONE-II, RYB PHASE
5	3.1.16	5:30	220KV BAWANA - KANJHAWALA CKT-2	3.1.16	13:30	AT BAWANA CKT. TRIPPED ON DIST PROT, DIST 11.26KM AT KHANJAWALA SUPPLY FAILED
6	4.1.16	8:51	NARELA 220/66KV 100MVA TX-I	4.1.16	9:15	220KV I/C-I TRIPPED ON E/F, ALONGWITH TR. -I 66KV I/C-I TRIPPED ON E/F
7	4.1.16	8:51	NARELA 66KV BHLSWA CKT-I	4.1.16	18:43	CKT. TRIPPED ON E/F, B PHASE ISOLAOTR FLASH
8	4.1.16	8:51	NARELA 220/66KV 100MVA TX-II	4.1.16	9:10	66KV I/C TRIPPED ON E/F
9	4.1.16	8:51	NARELA 220/66KV 100MVA TX-III	4.1.16	9:10	66KV I/C TRIPPED ON E/F
10	4.1.16	11:30	NARELA 66KV BHLSWA CKT-II	4.1.16	11:43	TRIPPED ON VT FUSE FAILURE
11	4.1.16	15:50	INDRAPRASTHA POWER 220/33KV 100MVA TX-II	4.1.16	15:55	WHILE ARRANGING S/D OF 33KV BAY NO-24 ALONG WITH 33KV EAST BUS-1 33KV I/C-2 TRIPPED ON O/C,86 LOCK OUT. TRIPPING OF I/C-2 OCCURRED DUE TO FALL OF METAL WIRE.

SLN O	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
12	4.1.16	15:50	INDRAPRASTHA POWER 220/33KV 100MVA TX-I	4.1.16	15:55	WHILE ARRANGING S/D OF 33KV BAY NO-24 ALONG WITH 33KV EAST BUS-1 33KV I/C-1 TRIPPED ON O/C,86 LOCK OUT. TRIPPING OF I/C-1 OCCURRED DUE TO FALL OF METAL WIRE.
13	5.1.16	3:45	SARITA VIHAR 220/66KV 100MVA TX-II	5.1.16	7:10	TR. TRIPPED ON OVER FLUX
14	5.1.16	20:01	220KV MAHARANI BAGH -TRAUMA CENTER CKT-II	09.02.16	18.56	AT MAHARANI BAGH CKT. TRIPPED ON L2-E, DIST 9.9KM AT TRAUMA CENTER CKT. TRIPPED ON ZONE-I, ABC PHASE, TRIP, 86A
15	5.1.16	20:01	220KV MAHARANI BAGH-TRAUMA CENTER CKT-I	6.1.16	11:08	
16	7.1.16	3:16	SARITA VIHAR 220/66KV 100MVA TX-III	7.1.16	6:12	TR. TRIPPED ON OVER FLUX
17	7.1.16	8:38	LODHI RD 33/11KV, 20MVA TX-I	8.1.16	13:02	TR. TRIPPED ON DIFFERENTIAL
18	7.1.16	20:30	DSIIDC BAWANA 220/66KV 100MVA TX-II	8.1.16	13:30	TR. TRIPPED ON DIFFERENTIAL, 87, 75B, OVER FLUX RELAY OPERATED
19	8.1.16	1:04	220KV BAWANA - KANJHAWALA CKT	8.1.16	11:35	AT BAWANA TRIPPED ON Z-I, ABC PH, DIST 7.4KM AT KHANJAWALA TRIPPED ON MAIN -II, RYB PH, ZONE-I, DIST 8.1KM
20	8.1.16	1:30	220KV WAZIRABAD- GEETA COLONY CKT-II	8.1.16	1:45	AT WAZIRABAD TRIPPED ON GENERAL TRIP, RYB PHASE, B PHSE, 86, ZONE-I, DIST 3KM AT GEETA COLONY TRIPPED ON O/C, E/F, ZONE-I, DIST .828KM
21	8.1.16	1:52	220KV BAWANA - KANJHAWALA CKT-2	8.1.16	10:57	AT BAWANA DIST PROT, GROUP-I AT KHANJAWALA NO TRIPPING
22	8.1.16	1:53	220KV BAMNAULI- NARAINA CKT-I	8.1.16	2:25	AT BAWANA TRIPPED ON D/P, ZONE-I, C PH., POLE DISCRIPANCY AT NARAINA, TRIPPED ON 86C, DIST PROT, A PHASE
23	8.1.16	1:53	220KV MAHARANI BAGH-TRAUMA CENTER CKT-I	8.1.16	12:20	AT MAHARANI BAGH TRIPPED ON E/F AT TRAUMA CENTER TRIPPED ON O/C
24	8.1.16	2:37	220KV BAMNAULI - DIAL CKT-II	8.1.16	3:35	AT BAMNAULI TRIPPED ON ZONE-I, A PHASE, 86A AND B, DIST 3.6KM AT DIAL TRIPPED ON R PH, GENERAL , PROT TRIP
25	8.1.16	2:37	220KV BAMNAULI- NARAINA CKT-II	8.1.16	3:13	AT BAMNAULI TRIPPED ON C PHASE, ZONE-I, DIST PROT, DIST 9.795KM, 186AB, POLE DISCRIPANCY AT NARAINA SUPPLY FAIL
26	8.1.16	3:48	220KV BAWANA- DSIDC BAWANA CKT-II	8.1.16	8:22	AT BAWANA ZONE-I, GROUP-I, 21X, R-I, R-2 AT DSIDC BAWANA DIST PROT, ZONE-I, C PHASE, DIST 1.188KM
27	8.1.16	4:16	220KV BAWANA- DSIDC BAWANA CKT-I	8.1.16	10:45	AT BAWANA ZONE-I, GROUP-I, DIST 2.6KM AT DSIDC 21, DIST PROT, 86
28	8.1.16	4:31	220KV SARITA VIHAR - BTPS CKT.-II	8.1.16	18:05	AT BTPS ZONE-I, R PHASE, DIST 1.0KM AT SARITA VIHAR ZONE-I, A PHASE, DIST 1.867KM, 186 A&B
29	8.1.16	4:32	220KV PRAGATI - SARITA VIHAR CKT-II	8.1.16	4:51	AT PRAGATI DIST PROT, 186 AT SARITA VIHAR NO TRIPPING
30	8.1.16	4:41	220KV NARELA - MANDOLA CKT-II	8.1.16	13:06	AT MANDOLA RY PHASE, ZONE-II, DIST 19.46KM AT NARELA R PHASE ,ZONE-I, DIST 0.208KM
31	8.1.16	4:43	220KV GOPALPUR- MANDOLACKT-II	8.1.16	18:15	AT MANDOLA RYB PHASE, E/F, ZONE-I, DIST 7.88KM AT GOPALPUR RYB PHASE, ZONE-I, DIST 8.5KM
32	8.1.16	4:51	220KV BAMNAULI - DIAL CKT-I	9.1.16	12:36	AT BAMNAULI ZONE-I, C PHASE, DIST 3.0KM, 186 A&B AT DIAL ZONE-I, B PH
33	8.1.16	5:02	220KV NARELA - MANDOLA CKT-I	8.1.16	13:06	AT MANDOLA R PHASE, ZONE-II, DIST 23.42KM AT NARELA SUPPLY FAIL
34	8.1.16	5:19	220KV MUNDKA- KANJHAWALA CKT-I	8.1.16	18:15	AT MUNDKA POLE DISCREPANCY, DIST PROT, ZONE-I, Y PH DIST 13KM, 86 AT KHANJAWALA GENERAL TRIP, RYB PH., ZONE-I, MAIN-I, RYB PH MAIN -II, RYB

SLN O	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
35	8.1.16	5:19	220KV KANJHAWALA-NAJAFGARH CKT	8.1.16	10:29	AT KHANJAWALA DIST PROT, DIST 9.9KM, MAIN-I, RYB, MAIN -II, RYB AT NAJAFGARH NO TRIPPING
36	8.1.16	5:28	220KVB AWANA-ROHINI CKT-I	8.1.16	11:46	AT BAWANA AUTO RECLOSE LOCK OUT, ZONE-I, R PHASE, DIST 4.81KM, 186 A&B AT ROHINI SUPPLY FAIL
37	8.1.16	5:28	220KVB AWANA-ROHINI CKT-II	8.1.16	9:09	AT BAWANA AUTO RECLOSE LOCK OUT, ZONE-I, B PHASE, DIST 5.122KM, 186 A&B AT ROHINI SUPPLY FAIL
38	8.1.16	6:03	220KV GOPALPUR-MANDOLACKT-I	8.1.16	15:58	AT MANDOLA RYB PHASE, ZONE-I, DIST 8.04KM AT GOPALPUR RYB PHASE, ZONE-I, DIST 0KM
39	8.1.16	6:27	NARELA 220/66KV 100MVA TX-III	8.1.16	15:49	TR. TRIPPED ON DIFFERENTIAL
40	8.1.16	6:44	220KV WAZIRABAD - MANDOLA CKT-II	8.1.16	17:42	AT MANDOLA RYB PHASE, ZONE-I, DIST 6.97KM AT WAZIRABAD RYB PHASE, ZONE-I, DIST 4.94KM
41	8.1.16	6:50	220 KV GOPALPUR-WAZIRABAD CKT-2	8.1.16	18:11	AT WAZIRABAD Y PH. TRIPPED, ZONE-I, DIST 2.106KM AT GOPALPUR NO TRIPPING
42	8.1.16	9:20	220KV GAZIPUR - BTPS CKT	8.1.16	17:07	AT BTPS R PHASE, DIST PRO, DIST 1.0KM AT GAZIPUR NO TRIPPING
43	8.1.16	10:38	220KV BAMNAULI-NAJAFGARH CKT-I	8.1.16	10:48	AT NAJAFGARH CKT. TRIPPED CVT AVAILABLE
44	8.1.16	10:38	220KV BAMNAULI-NAJAFGARH CKT-II	8.1.16	10:48	AT NAJAFGARH CKT. TRIPPED CVT AVAILABLE
45	9.1.16	3:18	NARAINA 220/33KV 100MVA TX-I	9.1.16	7:45	TR. TRIPPED ON O/C, E/F GAS PRESSURE LOW
46	9.1.16	4:18	NARAINA 220/33KV 100MVA TX-II	9.1.16	4:26	I/C TRIPPED ON O/C, R&B PHASE
47	9.1.16	15:09	SARITA VIHAR 220/66 KV 100MVA TX-III	9.1.16	23:35	TR. TRIPPED ON OVERFLUX
48	12.1.16	3:45	SARITA VIHAR 220/66 KV 100MVA TX-III	12.1.16	7:07	TR. TRIPPED ON OVER FLUX
49	14.1.16	11:55	MEHRAULI 220/66KV 160MVA TX-I	14.1.16	13:55	TR. TRIPPED ON DIFFERENTIAL PROT, RYB PHASE, I/C TRIPPED WITHOUT INDICATION
50	15.1.16	2:45	220KV BAMNAULI - DIAL CKT-II	15.1.16	6:03	AT DIAL R PHASE, DIFFERENTIAL PROT, AT BAMNAULI A PHASE, ZONE-I, 186 A&, DIST 3.2KM
51	15.1.16	3:50	220KV DIAL-MEHRAULI CKT-I	15.1.16	6:45	AT MEHRAULI, B PHASE, ACTIVE GROUP, C-N PHSAE, ZONE-I, DIST. 4.5KM AT AT DIAL DIFFERENTIAL RYB PHASE TRIPPED
52	15.1.16	3:50	MEHRAULI 220/66KV 100MVA TX-III	15.1.16	9:25	I/C TRIPPED ON E/F
53	15.1.16	3:50	MEHRAULI 220/66KV 160MVA TX-I	15.1.16	9:30	I/C TRIPPED ON E/F, O/C
54	15.1.16	3:50	MEHRAULI 220/66KV 100MVA TX-I	15.1.16	4:18	I/C TRIPPED ON E/F, O/C
55	15.1.16	3:57	DSIIDC BAWANA 220/66KV 160MVA TX-I	15.1.16	4:40	TR. TRIPPED ON DIFFERENTIAL , ABC, 86
56	15.1.16	4:01	220KV BAWANA - KANJHAWALA CKT-2	15.1.16	6:22	AT KHANJAWALA TRIPPED ON ZONE-I, RYB PHASE, AT BAWANA DIST PROT, ZONE-I, DIST 2.8KM, AUTO RECLOSE LOCK OUT
57	15.1.16	5:01	220KV GAZIPUR - MAHARANIBAGH CKT. -I	15.1.16	5:20	AT MAHARANI BAGH TRIPPED ON MAIN PROT-I, R PHASE, TRIP, ZONE-II
58	15.1.16	5:01	220KV GAZIPUR – MAHARANIBAGH CKT. -II	15.1.16	5:20	AT MAHARANI BAGH TRIPPED ON MAIN PROT-I, R PHASE, TRIP, ZONE-II
59	15.1.16	5:01	PATPARGANJ 220/33KV 100MVA TX-III	15.1.16	5:20	TR. TRIPPED ON 95, RYB PHASE
60	15.1.16	5:01	PATPARGANJ 220/33KV 100MVA TX-I	15.1.16	5:20	TR. TRIPPED ON 86

SLN O	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
62	15.1.16	5:25	220KV MUNDKA-KANJHAWALA CKT-I	15.1.16	5:59	AT KHANJAWALA TRIPPED ON ZONE-I, MAIN -I, RYB PHASE
63	15.1.16	5:25	220KV KANJHAWALA-NAJAFGARH CKT	15.1.16	6:15	AT KHANJAWALA TRIPPED ON ZONE-I, DIST 9.9KM, MAIN -I, RYB PHASE MAIN -II, RYB PHASE
64	15.1.16	5:53	220 KV PATPARGANJ - I.P. CKT-II	15.1.16	8:40	AT I.P. CKT. TRIPPED ON 186, 86, ZONE ABC, AT PATPARGANJ TRIPPED ON 186, 186, ACTIVE GROUP-I, ZONE-I, DIST 1.89KM
65	15.1.16	6:25	220KV BAWANA - KANJHAWALA CKT-2	15.1.16	11:39	AT KHANJAWLA TRIPPED ON MAIN-I, RYB PHASE, ZONE-I, DIST PROT, AT BAWANA TRIPPED ON ZONE-I, DIST 2.44KM
66	15.1.16	6:27	DSIIDC BAWANA 220/66KV 160MVA TX-I	15.1.16	17:50	TR TRIPPED ON 86 A&B, DIFFERENTIAL RELAY
67	15.1.16	6:28	220KV DSIDC BAWANA-NARELA CKT-II	15.1.16	11:02	AT BAWANA CKT. TRIPPED ON DIST RELAY DIST 1.36KM, AUTO RECLOSE, ZONE- & II
68	15.1.16	6:42	220KV KANJHAWALA-NAJAFGARH CKT	15.1.16	8:28	AT KHANJAWALA CKT. TRIPPED ON DIST PROT, DIST 8.4KM
69	15.1.16	6:42	220KV MUNDKA-KANJHAWALA CKT-I	15.1.16	8:28	AT KHANJAWALA CKT. TRIPPED ON ZONE-I, MAIN-I, RYB PHASE
70	15.1.16	6:55	220KVBAWANA-ROHINI CKT-II	15.1.16	7:10	AT BAWANA CKT. TRIPPED ON B PH.Z-I, DIST 1.85KM, AUTO RECLOSE, 186 A & B, E/F AT ROHINI -II, CKT. TRIPPED ON Z-I &II, SOTF, AT ROHINI SUPPLY FAIL
71	15.1.16	7:06	220KV MEHRAULI - BTPS CKT. - I	15.1.16	21:20	AT MEHRAULI TRIPPED ON ACTIVE GROUP-I, AN PHASE, ZONE-I, 4.19KM, CONDUCTOR BROKEN AT BTPS R PHSE, ZONE-II, DIST. 15.6KM
72	16.1.16	5:10	SARITA VIHAR 220/66KV 100MVA TX-I	16.1.16	10:55	TRIPPED ON 30A, BUCH, 30G, 86, 86
73	16.1.16	23:57	400KV MUNDKA-JHATIKARA CKT-II	17.1.16	1:04	AT MUNDKA CKT. TRIPPED ON ZONE-II, DIST PROT, B PHASE
74	18.1.16	0:43	NARAINA 220/33KV 100MVA TX-I	18.1.16	1:10	TR. TRIPPED ON 86B, 51N
75	18.1.16	3:46	220KV WAZIRABAD-GEETA COLONY CKT-I	18.1.16	4:00	AT WAZIRABAD CKT. TRIPPED AT RYB PHASE, B PHASE, ZONE-I, DIST 4.3KM AT GEETA COLONY TRIPPED AT ACTIVE GROUP-I, TRIPPED PHASE ABC, ZONE-I, DIST 65.3MTS.
76	18.1.16	3:46	220KV WAZIRABAD-GEETA COLONY CKT-II	18.1.16	3:58	AT WAZIRABAD TRIPPED ON RYB PHSE, ZONE-I, DIST 5KM, RY PHASE AT GEETA COLONY TRIPPED ON 86, SOTF, ACTIVE GROUP -I
77	18.1.16	7:36	DSIIDC BAWANA 220/66KV 160MVA TX-I	18.1.16	15:35	TR. TRIPPED ON ABC PHSE, DIFFERENTIAL 86
78	18.1.16	7:36	220KV DSIDC BAWANA-NARELA CKT-II	18.1.16	16:48	AT NARELA CKT TRIPPED ON ZONE-I, 1.37KM AT DSIDC BAWANA NO TRIPPING
79	18.1.16	8:38	220KV NARELA - MANDOLA CKT-I	18.1.16	11:58	AT NARELA CKT. TRIPPED ON E/F
80	18.1.16	9:07	NARELA 66/33KV, 30MVA TX	18.1.16	14:57	I/C TRIPPED ON E/F
81	19.1.16	0:49	220 KV PATPARGANJ - I.P. CKT-II	19.1.16	1:12	I.P. : 86, 186, DIST PROT, ZONE-I, ABC PHASE, PATPARGANJ : 186, 186, DISP PROT, TRIP ABC
82	19.1.16	1:24	KANJHAWALA 220/66KV 100MVA TX-I	19.1.16	1:39	TR. TRIPPED ON E/F
83	19.1.16	1:24	KANJHAWALA 220/66KV 100MVA TX-II	19.1.16	1:39	TR. TRIPPED ON E/F
84	19.1.16	1:26	220KV BAWANA-DSIIDC BAWANA CKT-II	19.1.16	10:27	AT BAWANA DIST PROT, AUTO RECLOSE, AG- FAULT, CB TROUBLE ALARM AT DSIDC BAWANA DIST PROT, A PHASE, MAIN I&II, DIST 3.1KM
85	19.1.16	1:26	220 KV PATPARGANJ - I.P. CKT-II	19.1.16	15:40	AT I.P. CKT. TRIPPED ON 86, 86 AT PATPARGANJ CKT. TRIPED ON 186, 186, TRIP ABC, 86X
86	19.1.16	1:28	220 KV PATPARGANJ - I.P. CKT-I	19.1.16	1:35	I.P. : 86, 186, ZONE-I, ABC PH, DIST. 1.78 KM PATPARGANJ 86X, DIST PROT, C

SLN O	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
87	19.1.16	1:31	220KV KANJHAWALA-NAJAFGARH CKT	19.1.16	19:01	AT KHANJAWALA R PHASE, ZONE-I, DIST 12.13KM, AT NAJAFGARH CKT. ALREADY OFF.
88	19.1.16	1:53	220KV BAWANA-DSIDC BAWANA CKT-I	19.1.16	1:58	AT BAWANA DIST PROT, ZONE-I, DIST 2.33KM AT DSIDC BAWANA DIST PROT, DIST 2.02KM, A PHASE, MAIN-I&II
89	19.1.16	2:05	220KVBAWANA-ROHINI CKT-II	19.1.16	7:27	AT BAWANA AUTO RECLOSE LOCK OUT, DIST PROT, ZONE-I, Y PHASE, DIST 2.07KM AT ROHINI-II, ZONE-I&II, SOTF, Y PHASE, POLE DISCREPENCY
90	19.1.16	2:05	BAWANA 400/220KV 315MVA ICT-III	19.1.16	2:49	ICT TRIPPED ON 86B, GROUP-I, FUSE FAIL, 197, O/C, TRIPPED ON INTER TRIP, B PHASE
91	19.1.16	2:10	220KV MUNDKA-KANJHAWALA CKT-I	19.1.16	7:54	AT MUNDKA DIST PORT, ZONE-I, Y PHASE, AT KHANJAWALA NO TRIPPING
92	19.1.16	2:16	220KV GOPALPUR-MANDOLACKT-I	19.1.16	14:20	AT GOPALPUR DIST PROT, ZONE-I, DIST 10.3KM, RYB PHASE, AT MANDOLA E/F, DIST PROT, Y PHASE -G
93	19.1.16	2:17	220KV GOPALPUR-MANDOLACKT-II	19.1.16	19:35	AT GOPALPUR, DIST PORT, ZONE-I, DIST 10.3KM, RYB PHASE AT MANDOLA E/F, DIST POR, Y PHASE-G
94	19.1.16	2:56	220KV BAMNAULI - DIAL CKT-II	19.1.16	6:38	AT DIAL R PHASE TRIP AT BAMNAULI DIST PROT, ZONE-I, A PHASE DIST 3.1KM, 186 A&B
95	19.1.16	3:15	220 KV PATPARGANJ - I.P. CKT-I	19.1.16	3:32	AT I.P. DIST PROT, ZONE-I, DIST 1.83KM, ABC PH AT PATPARGANJ DIST PROT, ZONE-I, DIST 1.98KM, C PHASE, 186
96	19.1.16	4:58	220KV WAZIRABAD - MANDOLA CKT-IV	19.1.16	16:31	AT WAZIRABAD DIST PROT, ZONE-I, DIST 7.48KM AT MANDOLA DIST PROT, DIST 7.7KM, B-N PHASE
97	19.1.16	5:00	220KV WAZIRABAD - MANDOLA CKT-III	19.1.16	15:30	AT WAZIRABAD DIST PORT, ZONE-I, ABC PHASE AT MANDOLA B-N PHASE
98	19.1.16	5:34	220KV NARELA - MANDOLA CKT-II	19.1.16	6:12	AT NARELA DIST PORT, ZONE-I, R PHASE
99	19.1.16	6:58	DSIDC BAWANA 220/66KV 100MVA TX-III	19.1.16	7:00	TR. TRIPPED ON O/C, E/F 86
100	19.1.16	18:01	GAZIPUR 220/66KV 160MVA TX-I	20.1.16	13:37	TR. TRIPPED ON DIFFERENTIAL PROT ALONGIWH 186, I/C TRIPPED ON INTERTRIPPING
101	20.1.16	7:55	SUBZI MANDI 33/11KV, 16MVA TX-I	20.1.16	9:04	TR. TRIPPED ON 87B, 86
102	20.1.16	13:51	GAZIPUR 220/66KV 160MVA TX-I	20.1.16	19:55	TR. TRIPPED ON DIFFERENTIAL 86A, 95A, 86B, 95B
103	21.1.16	15:25	SARITA VIHAR 66/11KV, 20MVA TX-I	21.1.16	19:05	TR. TRIPPED ON 30B, WINDING TEMP
104	22.1.16	1:27	220KV DSIDC BAWANA-NARELA CKT-II	22.1.16	11:40	AT NARELA CKT. OFF AT DSIDC BAWANA DIST PORT, ZONE-I, B PHASE DIST 1.345KM
105	22.1.16	3:16	220KV WAZIRABAD - MANDOLA CKT-III	22.1.16	19:28	AT WAZIRABAD DIST PROT, ZONE-I
106	22.1.16	4:06	220KVBAWANA-ROHINI CKT-I	22.1.16	10:45	AT BAWANA DIST PROT, ZONE-I, B PH., DIST 4.8KM AT ROHINI SUPPLY FAIL
107	22.1.16	4:14	220KVBAWANA-ROHINI CKT-II	22.1.16	19:09	AT BAWANA DIST PROT, ZONE-I, B PH, DIST 4.346KM, AT ROHINI SUPPLY FAIL AT ROHINI -II, DIST PROT, ZONE-II, R PHASE, GENERAL TRIP, FUSE FAIL
108	22.1.16	4:25	220KV NARELA - MANDOLA CKT-II	22.1.16	12:26	AT NARELA DIST POR,T ZONE-I, R PHASE, DIST. 6.69KM, 186
109	22.1.16	4:29	220KV BAWANA-DSIDC BAWANA CKT-I	22.1.16	10:19	AT BAWANA DIST PROT, ZONE-I, AUTO RECLOSE, AT DSIDC BAWANA DIST PORT, DIST 1.222KM, B PHASE
110	22.1.16	4:31	220KV NARELA - MANDOLA CKT-I	22.1.16	12:26	AT NARELA SUPPLY FAIL AT MANDOLA CKT. TRIPPED
111	22.1.16	4:31	220KV BAWANA-DSIDC BAWANA CKT-I	22.1.16	11:39	AT NARELA CKT. OFF AT DSIDC BAWANA DIST PROT, ZONE-I, DIST 4.908KM
112	22.1.16	4:48	220KV GOPALPUR-MANDOLACKT-I	22.1.16	6:55	AT GOPALPUR DIST PROT, ZONE-I, DIST 14.9KM
113	22.1.16	4:54	220KV GOPALPUR-MANDOLACKT-II	22.1.16	18:43	AT GOPALPUR DIST PRO, ZONE-I, DIST 3.1KM, RYB PHASE

SLN O	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
114	22.1.16	4:55	NARELA 220/66KV 100MVA TX-II	22.1.16	7:19	TRIPPED WITHOUT INDICATION
115	22.1.16	5:05	220KV BAWANA-DSIIDC BAWANA CKT-II	22.1.16	5:28	AT BAWANA DIST PROT, ZONE-I, DIST 1.22KM AT DSIDC BAWANA DIST PROT, ZONE-I, DIST 3.98KM, B PHASE
116	22.1.16	5:32	220KV BAWANA - KANJHAWALA CKT	22.1.16	9:58	AT BAWANA DIST PROT, ZONE-I AT KHANJAWALA DIST PROT, ZONE-I, RYB PHASE, DIST 8.4KM
117	22.1.16	5:32	220KV BAWANA-DSIIDC BAWANA CKT-II	22.1.16	9:58	AT BAWANA DIST PROT, ZONE-I, DIST 1.22KM AT DSIDC BAWANA DIST PROT, ZONE-I, DIST 0.75KM
118	22.1.16	6:23	DSIIDC BAWANA 220/66KV 100MVA TX-II	22.1.16	14:42	TR. TRIPPED ON BUCHHOLZ
119	22.1.16	6:26	220 KV GOPALPUR-WAZIRABAD CKT	22.1.16	16:17	AT WAZIRABAD DIST PROT, ZONE-I, II, III, DIST 3.141KM
120	22.1.16	6:31	220KV WAZIRABAD - MANDOLA CKT-II	22.1.16	15:24	AT WAZIRABAD DIST PROT, ZONE-I, II, III, DIST 10.29KM
121	22.1.16	6:31	220KV WAZIRABAD - MANDOLA CKT-I	22.1.16	16:37	AT WAZIRABAD DIST PROT, ZONEI, II & III, DIST 6.496KM, B PHASE
122	22.1.16	6:50	220KV GAZIPUR - MAHARANIBAGH CKT.-II	22.1.16	7:10	AT MAHARANI BAGH DIST PORT, ZONE-II, DIST 10.2KM AT GAZIPUR DIST PROT, Y PHASE, ZONE-III, DIST 2.09KM, AUTO RECLOSE
123	22.1.16	9:10	BAY-29 (IP – IG STADIUM)	22.1.16	10:45	TRIPPED ON E/F
124	22.1.16	11:30	SARITA VIHAR 220/66KV 100MVA TX-II	22.1.16	14:45	SHUTDOWN FOR TAN DELTA TEST
125	22.1.16	14:55	SARITA VIHAR 220/66KV 100MVA TX-II	22.1.16	16:20	I/C TRIPPED ON 86, 51N, E/F
126	23.1.16	7:35	220KV MEHRAULI - BTPS CKT. - I	23.1.16	13:50	AT MEHRAULI CKT. TRIPPED ON ZONE-I, DIST PROT, DIST 9.278KM AT BTPS ZONE-I, R PHASE, DIST 13KM
127	24.1.16	4:26	220 KV GOPALPUR-WAZIRABAD CKT-2	24.1.16	9:51	AT WAZIRABAD DIST PROT, ZONE-I, DIST 499.3MTS, Y PHASE AT GOPALPUR CKT .AT NO LOAD
128	24.1.16	4:35	220 KV PATPARGANJ - I.P. CKT-II	24.1.16	17:23	AT I.P., 86, 186, DIST PROT, AT PATPARGANJ 186, 186, 86, DIST 1.889KM, TRIP ABC
129	24.1.16	5:47	220 KV PATPARGANJ - I.P. CKT-I	24.1.16	9:33	AT I.P. 86, 186, ZONE-I ABC PHASE AT PATPARGANJ 86X, DIST 1.945KM, B PHASE, ABC PHASE
130	24.1.16	5:48	PRAGATI 220/66KV 160MVA TX-II	24.1.16	6:04	66KV I/C TRIPPED WITHOUT INDICATION AT G.T.
131	24.1.16	5:56	220KV WAZIRABAD - MANDOLA CKT-I	24.1.16	15:24	AT WAZIRABAD DIST PROT, ZONE-I, ABC PHASE, DIST 6.8KM AT MANDOLA RYB PHASE
132	24.1.16	6:15	220KV KANJHAWALA-NAJAFGARH CKT	24.1.16	10:58	AT NAJAFGARH ZONE-II, 186, 86 AT KHANJAWALA R PHASE, ZONE-I, DIST PROT, DIST 10.22KM
133	24.1.16	6:15	220KV MUNDKA-KANJHAWALA CKT-I	24.1.16	10:54	AT KHANJAWALA MAIN-II, DIST PROT, ZONE-I AT MU;NDKA DIST PROT, ZONE-I
134	24.1.16	6:25	220KV BAWANA-DSIIDC BAWANA CKT-I	24.1.16	11:11	AT BAWANA DIST PROT, AUTO RECLOSE, B PHASE, DIST 0.96KM AT DSDIC BAWANA DIST PROT, A PHASE, MAIN-II, DIST 4.339KM
135	24.1.16	6:45	220KV GAZIPUR - BTPS CKT	24.1.16	14:24	AT BTPS ZONE-I, R PHASE, DIST 2.0KM, E/F AT GAZIPUR NO TRIPPING
136	24.1.16	7:56	220 KV GOPALPUR-WAZIRABAD CKT	24.1.16	9:52	AT WAZIRABAD E/F, DIST PROT, Y PHASE AT GOPALPUR NO TRIPPING
137	24.1.16	8:02	220KV WAZIRABAD - MANDOLA CKT-II	24.1.16	9:27	AT WAZIRABAD DIST PROT, ZONE-I, Y PHASE DIST 4.31KM, B-N PHASE AT MANDOLA DIST PROT.
138	24.1.16	8:02	WAZIRABAD 220/66KV 100MVA TX-II	24.1.16	9:28	I/C -II TRIPPED ON O/C, R PHASE
139	24.1.16	8:02	WAZIRABAD 220/66KV 100MVA TX-III	24.1.16	9:19	TR. TRIPPED ON 86, E/F & I/C TRIPPED ON 86

SLN O	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
140	24.1.16	8:02	WAZIRABAD 220/66KV 100MVA TX-I	24.1.16	9:19	TR. TRIPPED ON E/F, 86 & 66KV I/C TRIPPED ON 86
141	26.1.16	1:01	220KV NARELA - MANDOLA CKT-I	26.1.16	19:40	AT NARELA TRIPPED ON DIRECTION AL E/F, 186 AT MANDOLA Y -N PHASE, ZONE-III, DIST PROT,
142	26.1.16	12:25	NARELA 220/66KV 100MVA TX-III	26.1.16	13:58	TR. TRIPPED DUE TO BROKEN R PHASE BUS-I INSULATOR AND ISOLATOR FALLEN ON MANDOLA CKT. -II
143	26.1.16	12:25	NARELA 220/66KV 100MVA TX-II	26.1.16	12:50	TR. TRIPPED DUE TO BROKEN R PHASE BUS-I INSULATOR AND ISOLATOR FALLEN ON MANDOLA CKT. -II
144	26.1.16	12:25	NARELA 220/66KV 100MVA TX-I	26.1.16	12:50	TR. TRIPPED DUE TO BROKEN R PHASE BUS-I INSULATOR AND ISOLATOR FALLEN ON MANDOLA CKT. -II
145	27.1.16	11:30	220KV BAWANA-SHALIMARBAGH CKT-I	27.1.16	18:50	SHUTDOWN FOR GEN MTC.
146	29.1.16	10:40	SUBZI MANDI 220/33KV 100MVA TX-I	29.1.16	16:27	TR. TRIPPED ON DIFFERENTIAL RYB PHASE, 186, 86, 64 RHV, 33KV I/C ALSO TRIPED ON 95 ABC, 86
147	30.1.16	13:30	BAMNAULI 400/220KV 500MVA ICT-II	30.1.16	19:25	ICT TRIPPED ON 30S PRV RELAY

**19.11 DETAILS OF 400/220KV BREAKDOWN/TRIPPINGS OCCURRED IN DTL SYSTEM DURING THE MONTH FEBRUARY – 2016**

SLN O	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
1	1.2.16	4:55	NARAINA 220/33KV 100MVA TX-I	1.2.16	12:41	I/C TRIPPED ON 86, GAS PRESSURE LOW REPORTED ON 33KV BREAKER
2	1.2.16	7:57	400KV MUNDKA-JHATIKARA CKT-II	1.2.16	1:25	AT MUNDKA CKT. TRIPPED ON DIST PROT, ZONE-I, R PHASE, B PHASE, 86B, CVT AVAILABLE
3	1.2.16	8:02	400KV BAWANA-MUNDKA CKT-I	1.2.16	10:25	AT MUNDKA CKT. TRIPPED ON BN PHSE TRIP GB, ZONE-I, DIST 299.9MTS.
4	1.2.16	11:38	PARKSTREET 220/66KV 100MVA TX-I	1.2.16	17:15	TR. TRIPPED ON REF, 195 CB, 86, 86
5	2.2.16	13:35	GEETA COLONY 220/33KV 100MVA TX-I	25.05.16	20:42	TR. TRIPPED ON 30G
6	2.2.16	18:10	ROHINI 220/66KV 100MVA TX-I	2.2.16	19:27	TR. TRIPPED ON 86, DIFFERENTIAL PROT.
7	3.2.16	18:07	220KV MUNDKA-PEERAGARHI CKT-I	3.2.16	21:33	AT MUNDKA TRIPPED ON 87N AT PEERAGARHI TRIPPED ON 86 A&B, 87N
8	4.2.16	4:00	220KV GAZIPUR-PATPARGANJ CKT	4.2.16	4:39	AT GAZIPUR CKT. TRIPED ON DIST PROT, ZONE-IV, R&Y PHASE, AT PATPARGANJ ONLY SUPPLY FAIL
9	4.2.16	4:56	220KV GAZIPUR-PATPARGANJ CKT	4.2.16	14:48	AT GAZIPUR CKT. TRIPPED ON DIST PROT, AT PATPARGANJ SUPPLY FAIL
10	4.2.16	8:38	220KV ROHINI-SHALIMARBAGH CKT-II	4.2.16	11:38	AT SHALIMARBAGH CKT. TRIPPED ON 96BB PROT., CVT AVAILABLE
11	4.2.16	8:38	220KV BAWANA-SHALIMARBAGH CKT-I	4.2.16	11:38	AT SHALIMARBAGH CKT. TRIPPED ON 96BB PROT., CVT AVAILABLE
12	4.2.16	8:38	220KV BAWANA-SHALIMARBAGH CKT-II	4.2.16	9:16	AT SHALIMARBAGH CKT. TRIPPED ON 96BB PROT., CVT AVAILABLE
13	4.2.16	8:38	SHALIMAR BAGH 220/33KV 100MVA TX-I	4.2.16	9:39	TR. TRIPPED ON 96 BB PROT.
14	4.2.16	23:25	GOPALPUR 220/66KV 100MVA TX-I	4.2.16	23:45	66KV I/C -I TRIPPED ON 86, 51N
15	6.2.16	1:29	400KV BALLABHGARH-BAMNAULI CKT-II	8.2.16	19:17	AT BAMNAULI RYB PHASE, ZONE-I, 186A, 186B AT BALLABGARH ZONE-I, DIST PROT, DIST 1.9KM, TRIPPED ON HEAVY JERK AT DIAL B PHASE JUMPER DEFFECTIVE,
16	6.2.16	10:29	220KV BAMNAULI - DIAL CKT-II	6.2.16	13:08	AT BAMNAULI CKT. TRIPPED ON ZONE-I, C PHASE, 186 A&B, DIST PROT, DIST 1.9KM, TRIPPED ON HEAVY JERK AT DIAL B PHASE JUMPER DEFFECTIVE,

SLN O	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
17	8.2.16	5:30	PAPPANKALAN-I 66/11KV, 20MVA TX-I	8.2.16	10:45	TX TRIPPED ON OLTC BUCHHOLZ, PRV.
18	8.2.16	8:10	220KV MEHRAULI - BTPS CKT. - I	8.2.16	18:12	AT MEHRAULI CKT TRIPPED ON D/P, Z-1 A-N PH, DIST-3.865KM. AT BTPS CKT TRIPPED ON D/P, Z-2, DIST-15.6KM E/F. DISC INSULATOR DAMAGED AT T N-62
19	8.2.16	8:58	220KV BAMNAULI- PAPPANKALAN-I CKT-I	8.2.16	11:58	AT BAMNAULI CKT TRIPPED ON POLE DISCREPANCY, 186A&B, 195, 295.
20	8.2.16	13:57	220KV BAMNAULI- PAPPANKALAN-I CKT-I	8.2.16	15:02	AT BAMNAULI CKT TRIPPED ON TRIP CKT SUPERVISION. AT PPK-1 CKT TRIPPED ON E/F,86.
21	8.2.16	17:53	220KV BAMNAULI- PAPPANKALAN-I CKT-I	8.2.16	17:55	AT BAMNAULI CKT TRIPPED ON DC LEAKAGE.
22	8.2.16	20:18	PEERA GARHI 220/33KV 100MVA TX-II	8.2.16	21:03	33KV I/C-2 OF TX TRIPPED ON 86 A&B.
23	9.2.16	6:53	220KV MUNDKA- KANJHAWALA CKT-I	9.2.16	10:18	AT MUNDKA CKT TRIPPED ON D/P,Z- 1,Y-PH,DIST-12KM. SUPPLY FAILED AT KANJHAWALA.
24	9.2.16	7:47	400KV BAWANA- MUNDKA CKT-II	9.2.16	15:36	AT BAWANA CKT TRIPPED ON D/P,Z- 1,DIST-23.07KM,186A&B. AT MUNDKA CKT TRIPPED ON D/P,Z-1,R- PH,86A&B,A/R LOCK OUT.
25	9.2.16	7:47	220KV BAWANA - KANJHAWALA CKT-2	9.2.16	10:31	AT KANJHAWALA CKT TRIPPED ON D/P Z-1,RY&B-PH. AT BAWANA CKT TRIPPED ON D/P,A-PH TO GROUND,DIST-7.29 KM.
26	10.2.16	10:35	220KV MEHRAULI - VASANT KUNJ CKT.-I	10.2.16	20:50	AT VASANT KUNJ CKT TRIPPED ON 85RX CARRIER RECEIVE, VT FUSE FAIL. Y-PH CVT MISSING AT VASANT KUNT. CKT DIDNOT TRIP AT MEHRAULI.
27	14.2.16	23:50	220KV SHALIMAR BAGH -WAZIPUR CKT-I	15.2.16	11:20	CKT. TRIPPED ON DIST PROT, ABC PHASE, 186
28	16.2.16	13:14	PAPPANKALAN-I 220/66KV 160MVA TX-I	16.2.16	17:48	TR. TRIPPED ON OVER FLUX
29	19.2.16	15:35	INDRAPRASTHA POWER 220/33KV 100MVA TX-I	19.2.16	15:55	33KV I/C-1 TRIPPED ON E/F,86.
30	19.2.16	15:40	IP - 220/33KV 100MVA TX-II	19.2.16	15:52	33KV I/C-2 TRIPPED ON E/F,86.
31	20.2.16	11:00	PAPPANKALAN-I 220/66KV 100MVA TX-I	20.2.16	15:28	TX TRIPPED ON LOAD UNBALANCING.
32	20.2.16	11:00	220KV BAMNAULI- PAPPANKALAN-I CKT- II	20.2.16	19:10	CKT TRIPPED ON POLE DISCREPANCY.
33	20.2.16	20:45	IP - 220/33KV 100MVA TX-II	20.2.16	21:00	33KV I/C-2 OF TX TRIPPED ON E/F.
34	20.2.16	22:20	IP 220/33KV 100MVA TX-II	21.2.16	8:00	33KV I/C-2 OF TX TRIPPED ON E/F. BUS INSULATOR OF Y-PH OF BAY-15 (CAPACITOR BANK-1)DAMAGED.
35	21.2.16	8:53	400KV BAWANA- MUNDKA CKT-I	21.2.16	9:58	AT MUNDKA CKT TRIPPED ON LBB.
36	22.2.16	14:23	220KV MEHRAULI - BTPS CKT. - II	22.2.16	19:00	AT MEHRAULI CKT TRIPPED ON D/P,Z- 1,DIST-10.42 KM. AT BTPS CKT TRIPPED ON D/P,Z-1,DIST-10.3 KM.
37	22.2.16	14:25	220KV PRAGATI - PARK STREET CKT-II	22.2.16	14:34	AT PARK STREET CKT TRIPPED ON 86.
38	24.2.16	12:06	220KV GAZIPUR - BTPS CKT	24.2.16	16:41	AT BTPS CKT TRIPPED ON D/P,Z-1,R&B- PH,DIST-6.6 KM.
39	24.2.16	16:58	220KV GAZIPUR - BTPS CKT	25.2.16	10:33	AT BTPS CKT TRIPPED ON D/P,E/F,R&B- PH,DIST-6.7 KM.
40	25.2.16	13:39	400KV BAWANA- MUNDKA CKT-II	25.2.16	20:15	AT BAWANA CKT TRIPPED ON D/P, Z- 1,186A&B, CB TROUBLE ALARM. R-PH JUMPER T CLAMP BROKEN.
41	25.2.16	13:39	400KV BAWANA- MUNDKA CKT-I	25.2.16	22:10	AT MUNDKA CKT TRIPPED ON HIGH SPEED RELAY. CKT CHARGED AT 14.07 HRS BUT HEAVY SPARKING OCCURRED AT R-PH LINE ISOLATOR SO CKT MADE OFF TO ATTEND ISOLATOR.

SLN O	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
42	25.2.16	14:00	220KV BAWANA-ROHINI CKT-II	25.2.16	14:09	AT ROHINI-2 CKT TRIPPED ON RED670,Z-1&2 & SOTF.
43	25.2.16	16:37	220KV MUNDKA-KANJHAWALA CKT-I	25.2.16	17:31	CKT MADE OFF AT MUNDKA DUE SPARKING AT Y-PH BUS-2 ISOLATOR.
44	25.2.16	20:26	400KV BAWANA-MUNDKA CKT-II	25.2.16	22:35	AT BAWANA CKT TRIPPED ON DIRECT TRIP RELAY.
45	26.2.16	1:44	400KV BAWANA-MUNDKA CKT-II	26.2.16	18:22	AT BAWANA CKT TRIPPED ON CARRIER LO RELAY. CKT DIDNOT TRIP AT MUNDKA.
46	26.2.16	4:35	VASANT KUNJ 66/11KV, 20MVA TX-II	26.2.16	11:45	11KV I/C-2 TRIPPED ON 86.
47	28.2.16	18:06	220KV GAZIPUR - BTPS CKT	29.2.16	10:42	AT BTPS CKT TRIPPED ON R-PH,E/F,DIST.-17.2KM.
48	29.2.16	2:25	LODHI RD 220/33KV 100MVA TX-I	29.2.16	0:00	OVER FLUX RELAY & 80DC APPEARED ON TX. TX MADE OFF.
49	29.2.16	16:40	220KV MUNDKA-KANJHAWALA CKT-I	29.2.16	17:24	AT MUNDKA CKT TRIPPED ON D/P,Z-1, R-PH, DIST-13.9 KMS.

**19.12 DETAILS OF 400/220KV BREAKDOWN/TRIPPINGS OCCURRED IN DTL SYSTEM DURING THE MONTH MARCH -2016**

SLN O	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
1	1.3.16	16:20	PRAGATI 220/66KV 160MVA TX-II	1.3.16	17:39	AT PRAGATI TX TRIPPED ON 86, INTER TRIP. 66KV I/C-2 TRIPPED ON O/C AT GT.
2	1.3.16	16:20	PRAGATI 220/66KV 160MVA TX-I	1.3.16	17:26	TX TRIPPED ON 86, INTER TRIP
3	1.3.16	17:48	PATPARGANJ 33/11KV, 20MVA TX	2.3.16	11:42	11KV I/C OF TX TRIPPED ON 30A BUCHHOLZ, 86.
4	3.3.16	12:21	220KV MUNDKA-PEERAGARHI CKT-I	3.3.16	16:55	CKT TRIPPED AT MUNDKA DURING PROTECTION TESTING.
5	3.3.16	21:39	220KV BAMNAULI-PAPPANKALAN-I CKT-II	3.3.16	22:23	AT BAMNAULI CKT TRIPPED ON D/P,A-PH,Z-1,DIST-5.316 KMS,186A&B AND POLE DISCREPENCY. AT PPK-1 CKT TRIPPED ON 67N E/F, 186, A/R.
6	3.3.16	21:39	PAPPANKALAN-I 220/66KV 100MVA TX-I	4.3.16	10:38	TX TRIPPED ON 51N E/F,86B.
7	4.3.16	9:01	220KV WAZIRABAD-GEETA COLONY CKT-I	4.3.16	17:53	AT WZB CKT TRIPPED ON D/P,Z-2,DIST-5.6 KM.
8	4.3.16	9:01	220KV WAZIRABAD - MANDOLA CKT-II	4.3.16	9:17	AT WZB CKT TRIPPED WITHOUT INDICATION.
9	4.3.16	13:48	220KV MUNDKA-PEERAGARHI CKT-I	4.3.16	14:26	AT MUNDKA CKT TRIPPED ON D/P,Z-3, CHANNEL-1&2 RECEIVED.
10	4.3.16	18:17	PAPPANKALAN-I 66/11KV, 20MVA TX-I	4.3.16	20:40	TX TRIPPED ON 86 & 11KV I/C TRIPPED ON INTER-TRIPPING.
11	4.3.16	9:01	220KV WAZIRABAD-GEETA COLONY CKT-I	4.3.16	17:53	AT WZB CKT TRIPPED ON D/P,Z-2,DIST-5.6 KM.
12	4.3.16	9:01	220KV WAZIRABAD - MANDOLA CKT-II	4.3.16	9:17	AT WZB CKT TRIPPED WITHOUT INDICATION.
13	4.3.16	13:48	220KV MUNDKA-PEERAGARHI CKT-I	4.3.16	14:26	AT MUNDKA CKT TRIPPED ON D/P,Z-3, CHANNEL-1&2 RECEIVED.
14	4.3.16	20:54	400KV BALLABHGARH-BAMNAULI CKT-II	4.3.16	22:10	AT BAMNAULI CKT TRIPPED ON D/P,AB&C-PH,DIST-43.95KM 186A&B.
15	5.3.16	7:02	PARKSTREET 220/33KV 100MVA TX-II	5.3.16	7:30	TX TRIPPED ON 86 ALONG WITH 33KV I/C OF TX WHICH TRIPPED ON 51N IDMT E/F,86.
16	6.3.16	4:02	220KV NARAINA-RIDGE VALLEY CKT-I	6.3.16	4:17	AT RIDGE VALLEY CKT TRIPPED ON 86. SUPPLY FAILED AT NARAYANA.
17	8.3.16	12:00	400KV BAWANA-MUNDKA CKT-I	8.3.16	12:41	AT MUNDKA CKT TRIPPED ON AUTO RE-CLOSE LOCK OUT 186 LO, 286 LO. CKT DIDNOT TRIP AT BAWANA.
18	8.3.16	12:00	400KV BAWANA-MUNDKA CKT-II	8.3.16	12:41	AT MUNDKA CKT TRIPPED ON AUTO RE-CLOSE LOCK OUT 186 LO, 286 LO. CKT DIDNOT TRIP AT BAWANA.

SLN O	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
19	8.3.16	12:01	BAWANA 400/220KV 315MVA ICT-IV	CONTD.	CONT D.	ICT TRIPPED ON 87 DIFFERENTIAL PROTECTION, PRV TRIP, O/C, E/F. ICT DAMAGED DUE TO FIRE.
20	9.3.16	23:50	MASJID MOTH 220/33KV 100MVA TX-I	10.3.16	10:40	33KV I/C-1 OF TX TRIPPED ON CB TROUBLE ALARM.
21	9.3.16	16:25	220KV WAZIRABAD-GEETA COLONY CKT-I	9.3.16	17:00	CKT MADE OFF AT WAZIRABAD FOR SAFETY PURPOSE AS MAN CLIMBED ON TOWER NO-347.
22	9.3.16	16:25	220KV WAZIRABAD-GEETA COLONY CKT-II	9.3.16	17:00	CKT MADE OFF AT WAZIRABAD FOR SAFETY PURPOSE AS MAN CLIMB ON TOWER NO-347.
23	11.3.16	1:50	MASJID MOTH 220/33KV 100MVA TX-I	11.3.16	13:25	33KV I/C-1 OF TX TRIPPED ON CB TROUBLE ALARM.
24	11.3.16	16:58	220KV GOPALPUR-MANDOLACKT-I	11.3.16	17:32	AT MANDOLA CKT TRIPPED ON D/P,DIST-19.3KM.
25	11.3.16	16:58	220KV GOPALPUR-MANDOLACKT-II	11.3.16	18:49	AT GOPALPUR CKT TRIPPED ON D/P,Z-1,DIST-1.9KM.
26	12.3.16	6:00	220KV GAZIPUR - MAHARANIBAGH CKT.-II	12.3.16	6:40	AT GAZIPUR CKT TRIPPED ON GENERAL TRIP,A/R. CKT DID NOT TRIP AT MAHARANI BAGH.
27	12.3.16	16:26	220KV NARAINA-RIDGE VALLEY CKT-I	12.3.16	16:40	AT NARAYANA CKT TRIPPED ON O/C, GENERAL TRIP.
28	12.3.16	16:28	220KV MAHARANI BAGH-TRAUMA CENTER CKT-I	12.3.16	16:43	AT MAHARANI BAGH CKT TRIPPED ON E/F.
29	12.3.16	16:57	220KV BAWANA-DSIIDC BAWANA CKT-I	12.3.16	19:30	AT BAWANA CKT TRIPPED ON D/P,Z-1,DIST-0.37KM. AT DSIDC BAWANA CKT TRIPPED D/P,Z-1,A/R.
30	12.3.16	17:21	400KV MANDOLA-BAWANA CKT-I	12.3.16	21:50	AT BAWANA CKT TRIPPED ON D/P,Z-1,DIST-18.46KM.
31	12.3.16	17:35	400KV BAWANA-MUNDKA CKT-II	12.3.16	18:07	AT MUNDKA CKT TRIPPED ON 286 LO,A/R, 186.
32	12.3.16	17:35	400KV BAWANA-MUNDKA CKT-I	12.3.16	18:07	AT MUNDKA CKT TRIPPED ON POLE DISCREPANCY,286 LO,A/R, 186, MAIN-1 & 2.
33	12.3.16	17:46	220KV WAZIRABAD-GEETA COLONY CKT-I	12.3.16	18:18	AT WZB CKT TRIPPED ON D/P,Z-1. CKT DID NOT TRIP AT GEETA COLONY.
34	12.3.16	17:46	220KV WAZIRABAD - KASHMEREGRATE CKT-II	12.3.16	18:37	AT WZB CKT TRIPPED ON 86.
35	12.3.16	17:46	220KV WAZIRABAD-GEETA COLONY CKT-II	12.3.16	22:12	AT WZB CKT TRIPPED ON D/P,Z-1. GEETA COLONY CKT TRIPPED ON D/P,Z-2,DIST-5.47KM,O/C,E/F,86.
36	13.3.16	16:04	220KV PRAGATI - SARITA VIHAR CKT-II	13.3.16	20:18	AT SARITA VIHAR CKT TRIPPED ON D/P,Z-1,DIST-2.54KM,186. AT PRAGATI CKT TRIPPED ON 186.
37	13.3.16	16:10	220KV BAMNAULI-NARAINA CKT-II	13.3.16	16:33	AT BAMNAULI CKT TRIPPED ON D/P,Z-1 B-PH,DIST-23.47KM, 186A&B,POLE DISCREPANCY. CKT DID NOT TRIP AT NARAINA.
38	14.3.16	8:09	220KV WAZIRABAD - KASHMEREGRATE CKT-II	14.3.16	8:27	AT WZB CKT TRIPPED WITHOUT INDICATION.
39	15.3.16	13:53	220KV PRAGATI - SARITA VIHAR CKT-II	15.3.16	14:29	AT SARITA VIHAR CKT TRIPPED ON D/P,Z-1,AB&C-PH,A/R,186 DIST-7.312KM. CKT DID NOT TRIP AT PRAGATI.
40	15.3.16	17:25	220KV BAMNAULI - DIAL CKT-II	15.3.16	19:01	AT BAMNAULI CKT TRIPPED ON D/P,Z-1,B-PH,DIST-11.4KM. AT DIAL. CKT TRIPPED ON D/P,Z-1,B-PH,DIST-5.1KM.
41	16.3.16	8:53	PARKSTREET 220/33KV 100MVA TX-I	16.3.16	9:30	TX TRIPPED ON O/C,51A,86B,E/F.
42	16.3.16	8:53	PARKSTREET 220/33KV 100MVA TX-II	16.3.16	10:45	33KV I/C OF TX TRIPPED ON 51A,O/C,51N,E/F.
43	16.3.16	14:40	220KV WAZIRABAD - KASHMEREGRATE CKT-II	16.3.16	14:59	AT WZB CKT TRIPPED ON D/P,Z-1,B-PH,DIST-173.3METER. CKT DID NOT TRIP AT KASHMEREGRATE.
44	16.3.16	14:40	220KV WAZIRABAD - KASHMEREGRATE CKT-I	16.3.16	14:59	AT WZB CKT TRIPPED ON D/P,Z-1,B-PH,DIST-173.3 METER. CKT DID NOT TRIP AT KASHMEREGRATE.

SLN O	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
45	17.3.16	9:55	400KV BALLABHGARH -BAMNAULI CKT-II	CONTD.	CONT D.	CKT WAS MADE OFF TO ATTEND SPACER. AFTER CLEARANCE CKT WAS CHARGED AT 18:34 HRS BUT TRIPPED ON D/P,C-PH, SOTF, DIST-219 METER ,186A&B. B1-PH CABLE JOINT BOX DAMAGED.
46	17.3.16	10:14	SARITA VIHAR 220/66 KV 100MVA TX-III	17.3.16	10:24	TX TRIPPED ON O/C,Y-PH,86.
47	17.3.16	16:03	SUBZI MANDI 220/33KV 100MVA TX-II	17.3.16	16:26	TX TRIPPED ON 86.
48	18.3.16	4:56	HARSH VIHAR 400/ 220KV 315MVA ICT-III	18.3.16	8:29	ICT TRIPPED ON OLTC, SURGE RELAY
49	18.3.16	8:42	SUBZI MANDI 33/11KV, 16MVA TX-I	18.3.16	11:30	TR. TRIPPED ON 87R&Y, 86
50	18.3.16	12:31	220KV GOPALPUR-MANDOLACKT-I	18.3.16	14:43	AT GOPLAPUR TRIPPED ON ZONE-I, DIST 0.6KM, R&Y PHASE, AT MANDOLA 8.7KA , Y PHASE
51	21.3.16	13:30	220KV MEHRAULI - BTPS CKT. - II	21.3.16	19:06	AT MEHRAULI CKT TRIPPED ON D/P,Z-1. AT BTPS CKT TRIPPED ON D/P,Z-1,DIST-5.5KM.
52	21.3.16	13:30	SARITA VIHAR 220/66 KV 100MVA TX-III	21.3.16	20:34	TX TRIPPED ON DIFFERENTIAL PROTECTION.
53	21.3.16	13:45	220KV BAWANA-DSIIDC BAWANA CKT-II	21.3.16	13:50	AT DSIDC BWN CKT TRIPPED ON 86. CKT DID NOT TRIP AT BWN.
54	21.3.16	15:00	220KV MEHRAULI - BTPS CKT. - I	21.3.16	21:03	AT MEHRAULI CKT TRIPPED ON D/P,Z-1,DIST-13.03 KM. AT BTPS CKT TRIPPED ON B-PH,E/F,DIST-13.9 KM.
55	24.3.16	18:16	PARKSTREET 220/33KV 100MVA TX-II	25.3.16	11:22	TX TRIPPED ON R&Y-PH DIFFERENTIAL PROTECTION,O/C,86. 33KV I/C-2 TRIPPED ON INTER TRIPPING. MONKEY ELECTROCUTED IN YARD.
56	25.3.16	13:20	220KV GAZIPUR - MAHARANIBAGH CKT. -II	25.3.16	17:50	AT MAHARANI BAGH CKT TRIPPED ON D/P,Z-2,Y-PH,86. AT GZP CKT TRIPPED ON D/P,Z-3,Y-PH.
57	25.3.16	21:25	OKHLA 220/33KV 100MVA TX-IV	26.3.16	12:25	TX TRIPPED ON DIFFERENTIAL PROTECTION,REF,184,R-P LA DAMAGED. 33KV I/C-IV TRIPPED ON 86.
58	26.3.16	15:54	220KV WAZIRABAD - MANDOLA CKT-IV	26.3.16	17:59	AT MANDOLA CKT TRIPPED ON D/P,B-N PH,DIST-15KM.AT WZB CKT TRIPPED ON D/P,Z-1,C-N PH, DIST-1.117 KM.
59	26.3.16	15:54	220KV WAZIRABAD - MANDOLA CKT-II	26.3.16	19:56	AT MANDOLA CKT TRIPPED ON D/P,Z-1,DIST-1.1172 KM. AT WZB CKT TRIPPED ON D/P,Z-1,RYB PH,DIST-0.983 KM.
60	26.3.16	15:57	220KV WAZIRABAD - MANDOLA CKT-I	26.3.16	20:51	AT MANDOLA CKT MADE OFF MANUALLY DUE TO OVER LOADING.
61	26.3.16	21:22	SARITA VIHAR 66/11KV, 20MVA TX-II	26.3.16	23:05	TX TRIPPED ON OLTC BUCHHOLZ.
62	30.3.16	7:46	220KV MEHRAULI - VASANT KUNJ CKT.-I	30.3.16	8:10	AT MEHRAULI CKT TRIPPED ON 67NX,186A&B.
63	30.3.16	7:46	MEHRAULI 220/66KV 160MVA TX-I	30.3.16	8:20	66KV I/C OF TX TRIPPED ON O/C,E/F,86.
64	30.3.16	7:46	MEHRAULI 66KV MALVIYA NAGAR CKT-II	30.3.16	15:19	CKT TRIPPED ON O/C,E/F. Y-PH POLE OF CB DAMAGED.
65	30.3.16	13:35	INDRAPRASTHA POWER 220/33KV 100MVA TX-III	31.3.16	18:03	TX TRIPPED O 51N,86,186 AND 33KV I/C TRIPPED ON 86,95 A B & C. CB OF 33KV I/C-3 DAMAGED.
66	30.3.16	13:51	220KV GOPALPUR-MANDOLACKT-II	30.3.16	15:52	AT MANDOLA CKT TRIPPED ON 85LO,86B,86BUX,AA. CKT DID NOT TRIP AT GOPALPUR.
67	30.3.16	13:51	220KV WAZIRABAD-GEETA COLONY CKT-II	30.3.16	14:24	AT GEETA COLONY CKT TRIPPED ON D/P,Z-1,DIST-3.657,86. AT WZB CKT TRIPPED ON D/P,Z-1,DIST-3.6KM.
68	30.3.16	13:51	220KV GOPALPUR-MANDOLACKT-I	30.3.16	15:52	AT MANDOLA CKT TRIPPED ON 85LO, 86B, 86BUX,AA. CKT DID NOT TRIP AT GOPALPUR.
69	31.3.16	15:50	PARKSTREET 220/33KV 100MVA TX-I	31.3.16	16:10	TX TRIPPED ON 86 AND 33KV I/C TRIPPED ON 51N.
70	31.3.16	15:50	PARKSTREET 220/33KV 100MVA TX-II	31.3.16	16:10	TX TRIPPED ON 86 AND 33KV I/C TRIPPED ON 51N,51C.

## 20 MAJOR GRID DISTURBANCES OCCURRED IN 2015-16.

### i) Report on tripping occurred in Delhi system on 19.05.2015.

The following tripping occurred in Delhi system on 19.05.2015 due to storm at 14:28 hrs.

S. No	Name of the elements tripped	Relay indications	Time of tripping in Hrs.	Time of Restoration in Hrs.	Remarks
1	220kV BAMNAULI-PAPPANKALAN-I CKT-I	AT PPK-1: D/P,86AB&C. AT BAMNAULI : D/P,B&C-PH,186A&B..	14.28	20.45	JUMPER OF THE CKT DAMAGED AT TOWER NO-47 & 48
2	220kV PRAGATI - SARITA VIHAR CKT	AT PRAGATI : D/P,Z-1,AB&C-PH,DIST-7.895KM. AT SARITA VIHAR : D/P,AB&C-PH,DIST-1.738KM,A/R LOCKOUT	14.33	19.25	
3	220kV SARITA VIHAR - BTPS CKT.-I	AT SARITA VIHAR : D/P,Y-PH,95C, 186A&B, A/R LOCKOUT. NO TRIPPING AT BTPS.	14.33	14.45	
4	220KV GAZIPUR - MAHARANIBAGH CKT. - I	AT MAHARANI BAGH : MAIN-2, B-PH E/F. NO TRIPPING AT GAZIPUR.	15.30	16.25	
5	220KV GAZIPUR - MAHARANIBAGH CKT. - II	AT GAZIPUR. : Y-PH VOLTAGE OF CKT MISSING	15.50	23.20	CKT MADE OFF AS Y-PH JUMPER SNAPPED AT TOWER NO-9.
6	220KVBAWANA- ROHINI CKT-II	AT BAWANA: DP,Z-1,C-PH,186. AT ROHINI.: NO TRIPPING AT ROHINI-2 : D/P,Z-1 & 2,SOTF.	17.47	23.29	

Load affected during the incident is as under:-

Name of the Grid	Time (Hrs)		Load in MW	Remarks
	From	To		
<b>PATPARGANJ</b>				
33kV PREET VIHAR CKT.	15.28	15.45	18	
33KV CBD SHAHDRA CKT. -I	15.28	15.45	18	
33KV SHAKARPUR CKT.	15.28	15.45	9	
33KV GURU ANGAD NAGAR CKT.	15.28	15.45	26	
33KV CBD SHAHDRA CKT. -II	15.28	15.56	6	
33KV KARKARDOOMA CKT.	15.28	15.41	13	
66KV GROUP HOUSING-I CKT.	15.28	15.45	13	
66KV GROUP HOUSING -II CKT.	15.28	16.13	15	
66KV MAYUR VIHAR CKT. -I	15.28	16.40	12	
66KV MAYUR VIHAR CKT. -II	15.28	16.40	15	
66KV KHICHRIPUR CKT.	15.28	16.13	13	
11KV LOAD AT PATPARGANJ	15.28	15.45	19	
<b>GAZIPUR</b>				
66KV KONDLI CKT. 1&2	15.28	16.40	27	
11KV LOAD AT GAZIPUR	15.25	16.29	6	
<b>PAPANKALAN-I</b>				
66KV BODELA-I CKT.	14.40	15.15	50	
66KV G-2 PAPANKALAN CKT.-II	15.40	15.10	20	
<b>ROHINI</b>				
66KV ROHINI SEC. 24 CKT.-I &2	17.48	17.52	15	
66KV ROHINI SEC. 5 CKT.-I & 2 AND 11KV LOAD	17.48	17.52	36	
<b>ROHINI-2</b>				
66KV ROHINI SEC. 28 CKT.-I & 2	17.48	17.50	25	

ii) **Preliminary report on tripping occurred in Delhi system on 13.06.2015.**

The following tripping occurred in Delhi system on 13.06.2015 at 14.40hrs. at 220kV Geeta Colony - Wazirabad Ckt. I & II.

S. No	Name of the elements tripped	Relay indications	Time of tripping in Hrs.	Time of Restoration in Hrs.	Remarks
1	220kV Geeta Colony – Wazirabad Ckt. I	At Geeta Colony : D/P, Zone-I, Dist. 3.27Kms., ABC Phase. At Wazirabad : No tripping	14.40	14.45	
2	220kV Geeta Colony – Wazirabad Ckt. II	At Geeta Colony : Dist. Prot, Dist. 4.183Kms. At Wazirabad : D/P, Zone-I, ABC Ph.	14.40	15.34	
3	220kV Wazirabad – Mandola Ckt. -IV	At Mandola : Dist. Prot, R Phase, Dist. 11.16Kms. At Wazirabad : O/C, E/F,	14.40	15.23	
4	220kV Wazirabad – Gopalpur Ckt. -I	At Wazirabad : Dist. Prot, Zone I At Gopalpur : no tripping at Gopalpur	14.40	16.11	

**System configuration during the incident**

Prior to the incident, GT Station and Unit -1 of Pragati Stn. was connected to Mandola side through 220kV IP Ext (Pragati) - IP -Patparganj - Geeta Colony –Wazirabad - Mandola Ckts. Unit -2 & STG of Pragati Stn. was connected to BTPS through 220kV Pragati – Sarita Vihar Ckt.-BTPS link catering the load of Parkstreet Ckts. 220kV Bus coupler was open at Pragati s/stn. The units of RPH stn were under shutdown due to less demand. This tripping caused the tripping of generating units of Pragati Unit –1.

**Generation Loss during disturbance :**

Name of Stn.	Unit No.	Generation prior to the incident in MW	Time		Remarks
			Tripping	Restoration	
Pragati	#1	80	14.40	15.46	
	STG	104			Unit did not trip but generation reduce to 52MW
<b>Total (MW)</b>		<b>107</b>			

**Load affected during the incident is as under:-**

Name of the Grid	Time (Hrs)		Load in MW	Remarks
	From	To		
FOUNTAIN	14:40	14:52	5	
KAILASH NAGAR	14:40	16:15	23	
GH-I GRID	14:40	14:52	10	
KAMLA MARKET	14:40	14:52	26	
JAMA MASJID	14:40	14:52	7	
GEETA COLONY	14:40	14:52	34	
KANTI NAGAR	14:40	14:52	25	
DELHI GATE, IP ESTATE	14:40	14:52	10	
G.B. PANT	14:40	14:52	15	
MINTO ROA	14:40	14:57	11	
MOTIA KHAN	14:40	14:52	14	
KHICHRIPUR	14:40	14:52	14	
I.G. STADIUM	14:40	14:52	4	

iii) **Preliminary report on tripping occurred in Delhi system on 23.07.2015.**

The following tripping occurred in Delhi system on 23.07.2015 due to operation of bus bar protection at 220kV Pragati S/Stn.

**Pragati 220kV**

S. No	Name of the elements tripped	Relay indications	Time of tripping in Hrs.	Time of Restoration in Hrs.	Remarks
1	220kV Pragati-Sarita Vihar ckt.-I	At Pragati 220kV : Bus bar Prot. At Sarita Vihar : Ckt. did not trip	13.13	13.42	
2	220kV Pragati-I.P. ckt.-I	At Pragati 220kV : Bus bar Prot. At I.P. : Dist prot., zone-I	13.13	14.44	
3	220kV Pragati-I.P. ckt.-II	At Pragati 220kV : Bus bar Prot. At I.P. : Ckt. did not trip	13.13	14.44	
4	220kV Pragati-Park Street ckt.-I	At Pragati 220kV : Bus bar Prot. At Park Street : Ckt. did not trip	13.13	13.45	
5	220kV Pragati-Park Street ckt.-II	At Pragati 220kV : Bus bar Prot. At Park Street : Ckt. did not trip	13.13	14.11	
6	220/66kV 160MVA Pr. Tr.-I at Pragati	Bus bar Prot. operated at Pragati	13.13	13.58	
7	220/66kV 160MVA Pr. Tr.-II at Pragati	Bus bar protection operated at Pragati	13.13	13.49	
8	220/66kV 160MVA Pr. Tr.-II at Pragati	Tr. Tripped on 186	14.09	14.16	

**System configuration during the incident**

Prior to the incident, GT Station was connected to Mandola side through 220kV IP Ext (Pragati) -IP -Patparganj - Geeta Colony –Wazirabad - Mandola Ckts. Pragati Stn. was connected to BTPS through 220kV Pragati – Sarita Vihar Ckt.-I catering the load of Parkstreet Ckts. 220kV Pragati – Sarita Vihar ckt. –II was under shutdown since 12.06.2015 for replacing Zebra conductor with HTLS conductor. 220kV Bus coupler was open at Pragati s/stn. All units of Pragati station were under shutdown due to non availability of APM Gas. The units of RPH stn were under shutdown due to less demand. Tripping occurred during isolator operation while changing over of Pragati Unit –I from 220kV Bus –I to Bus –II in order to bring this unit. This tripping caused the islanding of generating units at GT running units. The island survived for a few minutes but machine came on FSNL at 13.18hrs. due to fluctuating load of DMRC feeder.

**Generation Loss during disturbance :**

Name of Stn.	Unit No.	Generation prior to the incident	Time (Hrs)		Remarks
			Tripping	Restoration	
G.T.	#5	25	13.18	14.12	Unit 5 & 6 throw off load and came on FSNL
	#6	28	13.18	14.12	
	STG-3	15	13.13	17.15	
<b>Total (MW)</b>		<b>68</b>			

**Load affected during the incident is as under:-**

Name of the Grid	Time		Load in MW	Remarks
	From	To		
<b>PARK STREET</b>				
66kV B.D.Marg Ckt. -I	13.13	13.47	12	
66kV B.D.Marg Ckt. -II	13.13	13.47	9	
66kV State Guest house Ckt.	13.13	13.47	9	
66kV School lane	13.13	13.47	7	
66kV Dample	13.13	13.47	ON	
66kV DMRC	13.13	13.47	7	
33kV Faiz Road Ckt. -I	13.13	13.46	8	
33kV Faiz Road Ckt. -II	13.13	13.46	19	
33kV Parshad nagar Ckt.	13.13	13.46	13	
33kV Shankar Road Ckt.	13.13	13.46	15	
33kV Motia khan Ckt. -I	13.13	13.46	14	
33kV Motia Khan ckT-II	13.13	13.46	8	
33kV Braid Road Ckt. -I	13.13	13.46	8	
33kV Braid Road Ckt. -II	13.13	13.46	ON	
33kV Hanuman Road Ckt.	13.13	13.46	7	
33kV Nirman Bhawan Ckt.	13.13	13.46	6	
<b>TOTAL</b>			<b>142</b>	

iv) **Report on tripping occurred in Delhi system on 13.08.2015.**

The following tripping occurred in Delhi system on 13.08.2015 at I.P.Extn. (Pragati)

**Pragati 220kV**

S. No	Name of the elements tripped	Relay indications	Time of tripping in Hrs.	Time of Restoration in Hrs.	Remarks
1	220/66kV 160MVA Pr. Tr.-I at Pragati	Tr. Tripped on LVREF, HVREF intertrip, O/C R phase, 66kV I/C -I tripped on O/C. E/F	20.50	23.13	
2	220/66kV 160MVA Pr. Tr.-II at Pragati	Tr. Tripped on O/C, 86, 66kV I/C -II tripped on O/C. E/F	20.50	21.23	
3	220kV Bus coupler at I.P.Stn.	Bus coupler tripped on SPS	20.50	21.10	
4	220kV Bus coupler at Geeta Colony	Bus coupler tripped on SPS	20.50	20.59	
5	33kV I/C-II of 220/33kV 100MVA Tr. -II	33kV I/C tripped on SPS	20.50	20.59	

**System configuration during the incident**

Prior to the incident, GT Station was connected to Mandola side through 220kV IP Ext (Pragati) -IP -Patparganj - Geeta Colony –Wazirabad - Mandola Ckts. Pragati Stn. was connected to BTPS through 220kV Pragati – Sarita Vihar Ckt.-BTPS link catering the load of Parkstreet Ckts. 220kV Bus coupler was open at Pragati s/stn. Unit-1 of Pragati station was synchronized with grid through 220kV Pragati – I.P. – Patparganj – Geeta Colony – Wazirabad – Mandola Link. Unit -2 & STG of Pragati station were synchronized with grid through 220kV Pragati – Sarita vihar – BTPS Link. The units of RPH stn were under shutdown due to less demand. This tripping caused the tripping of generating units at GT Stn. Only.

**Generation Loss during disturbance :**

Name of Stn.	Unit No.	Generation prior to the incident in MW	Time (Hrs)		Remarks
			Tripping	Restoration	
G.T.	#3	26	20.50	15.12hrs on 09.01.16	Unit -4 was taken on bar at 23.05hrs. and unit-3 stopped due to low demand.
	STG-2	9	20.50	12.30 (14.08.15)	
<b>Total (MW)</b>		<b>35</b>			

**Load affected during the incident is as under:-**

Name of the Grid	Time (Hrs)		Load in MW	Remarks
	From	To		
<b>PARK STREET</b>				
33kV CBD Shahdra Ckt. I& II	20.50	20.59	24	
33kV Karkardooma Ckt.	20.50	20.59	13	
33kV Preet Vihar Ckt.	20.50	20.59	17	
33kV Kailsah Nagar Ckt.	20.50	20.59	17	
33kV Shakarpur Ckt.	20.50	20.59	20	
<b>TOTAL</b>			<b>91</b>	

v) **Report on tripping occurred in Delhi system on 01.09.2015.**

The following tripping occurred in Delhi system on 01.09.2015

S. No	Name of the elements tripped	Relay indications	Time of tripping in Hrs.	Time of Restoration in Hrs.	Remarks
1	220kV Mandola – Wazirabad Ckt. -I	At Mandola : Dist. Prot. Zone-2, Dist. 17.6Kms., R ph 4.1kAmps, Y ph 3.69kAmps At Wazirabad : Supply Fail	16.06	16.37	Kite thread entangled on conductor of 220kV Mandola – South of Wazirabad Ckt. -IV on tower no. 50.
2	220kV Mandola – Wazirabad Ckt. -II	At Mandola : Dist. Prot. Zone-2, Dist. 17.18Kms., R ph 4.1kAmps, B ph 3.63kAmps At Wazirabad : Supply Fail	16.06	16.43	
3	220kV Mandola – Wazirabad Ckt. -III	At Mandola : Dist. Prot. Zone-2, Dist. 16.97Kms., R ph 4.28kAmps, B ph 3.74kAmps At Wazirabad : Supply Fail	16.06	16.48	
4	220kV Mandola – Wazirabad Ckt. -IV	At Mandola : Dist. Prot. Zone-2, Dist. 13.28Kms., R ph 5.3kAmps, B ph 4.69kAmps At Wazirabad : Supply Fail	16.06	18.04	

**System configuration during the incident**

Prior to the incident, GT Station was connected to Mandola side through 220kV IP Ext (Pragati) -IP -Patparganj - Geeta Colony –Wazirabad - Mandola Ckts. Pragati Stn. was connected to BTPS through 220kV Pragati – Sarita Vihar Ckt.-BTPS link catering the load of Parkstreet Ckts. 220kV Bus coupler was open at Pragati s/stn. Unit-2 of Pragati station was synchronized with grid through 220kV Pragati – I.P. – Patparganj – Geeta Colony – Wazirabad – Mandola Link. Unit -1 & STG of Pragati station were synchronized with grid through 220kV Pragati – Sarita vihar – BTPS Link. The units of RPH stn were under shutdown due to less demand. This tripping caused the tripping of generating units at GT Stn. and Pragati Unit -2.

**Generation Loss during disturbance :**

Name of Stn.	Unit No.	Generation prior to the incident in MW	Time (Hrs)		Remarks
			Tripping	Restoration	
G.T.	#1	22	16.06	17.20	
	STG-1	8	16.06	19.20	
Pragati	#2	132	16.06	16.24	Generation of ½ STG is also included (80MW + 52MW)
<b>Total (MW)</b>		<b>162</b>			

Load affected during the incident is as under:-

Name of the Grid	Time		Load in MW
	From	To	
<b>BYPL</b>			
<i>DEEN DYAL UPADHAYA MARG</i>	16:06	16:17	13
<i>DELHI GATE</i>	16:06	16:17	13
<i>MINTO ROAD</i>	16:06	16:17	14
<i>KAMLA MARKET</i>	16:06	16:17	28
<i>G.B. PANT</i>	16:06	16:17	17
<i>I.G. STADIUM</i>	16:06	16:17	13
<i>GH-I GRID</i>	16:06	16:17	14
<i>220KV KASHMIRI GATE(11kV LOAD)</i>	16:06	16:47	6
<i>LAHORI GATE</i>	16:06	16:48	21
<i>TOWN HALL</i>	16:06	16:48	23
<i>JAMA MASJID</i>	16:06	16:48	23
<i>MOTIA KHAN</i>	16:06	16:48	13

Name of the Grid	Time		Load in MW
	From	To	
FOUNTAIN	16:06	16:48	15
SONIA VIHAR	16:06	16:50	13
220KV WAZIRABAD	16:06	16:55	16
GHONDA	16:06	16:57	26
KAILASH NAGAR	16:06	17:00	25
KANTI NAGAR	16:06	17:00	27
SHASTRI PARK EAST	16:06	17:12	11
GEETA COLONY	16:06	17:12	36
YAMUNA VIHAR	16:06	17:12	28
EAST OF LONI ROAD	16:06	17:12	16
DWARKAPURI	16:06	17:12	20
SHAKARPUR	16:06	17:12	11
SEELAMPUR	16:06	17:12	24
BHAGIRATHI	16:06	17:12	19
KARAWAL NAGAR	16:06	17:12	31
KHICHRIPUR	16:06	17:12	15
220KV WAZIRABAD	17:12	17:59	16
KANTI NAGAR	17:18	18:04	28

BRPL			
KILOKARI BAY-1, 25, 37	16:06	16:21	23
LAJPAT NAGAR	16:06	16:21	11
DEFENCE COLONY	16:06	16:21	25
EXHIBITION-1 & 2	16:06	16:21	5
KILOKARI BAY-1, 25, 37	16:55	17:12	23
MATHURA ROAD CKT-1 & 2	16:25	17:05	70
TPDDL			
<b>220kV KASHMERIC GATE</b>			
(11k LOAD)	16:06	16:45	10
CIVIL LINE (NEW)	16:06	16:12	6
<b>TOTAL LOAD AFFECTED (IN MW)</b>			<b>748</b>

vi) **Preliminary report on tripping occurred in Delhi system on 09.09.2015.**

The following tripping occurred in Delhi system on 09.09.2015 at 220kV Geeta Colony & Patparganj S/Stn.

S. No	Name of the elements tripped	Relay indications	Time of tripping in Hrs.	Time of Restoration in Hrs.	Remarks
1	220kV Geeta Colony – PatparganjCkt. I	At Geeta Colony : ELTS Trip, 27RYB, 86 At Patparganj : Supply fail.	11.43	12.00	
1	220kV Geeta Colony – PatparganjCkt. II	At Geeta Colony : Dist. Prot, Zone-I, Dist. 1.354Kms. & O/C At Patparganj : Dist Prot, ABC Phase, 186	11.43	12.06	

**System configuration during the incident**

Prior to the incident, GT Station was connected to Mandola side through 220kV IP Ext (Pragati) -IP -Patparganj - Geeta Colony –Wazirabad - Mandola Ckts. Pragati Stn. was connected to BTPS through 220kV Pragati – Sarita Vihar Ckt.-BTPS link catering the load of Parkstreet Ckts. 220kV Bus coupler was open at Pragati s/stn. Unit-2 of Pragati station was synchronized with grid through 220kV Pragati – I.P. – Patparganj – Geeta Colony – Wazirabad – Mandola Link. Unit -1 & STG of Pragati station were synchronized with grid through 220kV Pragati – Sarita vihar – BTPS Link. The units of RPH stn were under shutdown due to less demand. This tripping caused the tripping of generating units at GT Stn. & Pragati Unit -2 came on FSNL. At 11.48hrs. 220kV Bus coupler closed at Pragati S/Stn and startup power extended to G.T. & Pragati Generating Station.

**Generation Loss during disturbance :**

Name of Stn.	Unit No.	Generation prior to the incident in MW	Time (Hrs)		Remarks
			Tripping	Restoration	
G.T.	#6	22	11.43	12.36	
	#STG-3	10	11.43	13.58	
Pragati	#2	75	11.43	11.59	Machine came on FSNL Mode. STG generation reduced to 47MW.
<b>Total (MW)</b>		<b>107</b>			

**Load affected during the incident is as under:-**

Name of the Grid	Time		Load in MW	Remarks
	From	To		
<b>PATPARGANJ</b>				
66kV GH-I Ckt. -I & II	11.43	11.47	24	
66kV Mayur Vihar -I Ckt.	11.43	11.47	11	
66kV Vivek Vihar Ckt. I & II	11.43	11.47	26	
66kV Akshardham Ckt.	11.43	11.47	1	
<b>RPH</b>				
33kV Bay No. 15 (G.B.Pant)	11.43	11.57	11	
33kV Bay No. 19 (Kamla Market)	11.43	11.57	9	
33kV Bay No. 17 (Minto Road)	11.43	11.57	4	
33kV Bay No. 16 (Fountain)	11.43	11.57	6	
<b>I.P.</b>				
33kV Bay No. 19 (G.B.Pant)	11.43	11.57	6	
33kV Bay No. 30 (Kamla Market)	11.43	11.57	11	
33kV Bay No. 18 (DDU)	11.43	11.57	10	
33kV Bay No. 17 (Delhi Gate)	11.43	11.57	9	
33kV Bay No. 29 (I.G.Stadium)	11.43	11.57	10	
33kV Bay No. 33 (I.G.Stadium)	11.43	11.57	6	
33kV Bay No. 34 (Minto Road)	11.43	11.57	8	
33kV Bay No. 7 (Exhibition Ground -I)	11.43	12.03	2	UFR Operated
33kV Bay No. 9 (Exhibition Ground -II)	11.43	12.03	No load	UFR Operated
33kV Bay No. 24 (Defence Colony)	11.43	12.03	8	UFR Operated
33kV Bay No. 1, 25 & 37 (Kilkri)	11.43	11.58	35	
33kV Bay No. 13 (Nizamuddin)	11.43	11.48	5	
33kV Bay No. 5 (Lajpat Nagar)	11.43	11.48	8	

vii) **Preliminary report on tripping occurred in Delhi system on 13.09.2015.**

The following tripping occurred in Delhi system on 13.09.2015 at 220kV Geeta Colony & Patparganj S/Stn.

S. No	Name of the elements tripped	Relay indications	Time of tripping in Hrs.	Time of Restoration in Hrs.	Remarks
1	220kV Geeta Colony – PatparganjCkt. I	At Geeta Colony : Dist. Prot, Zone-I, Dist. 2.662Kms. O/C, ABC Phase At Patparganj : 186, 186, Zone-I, Dist. 2.226Km.	12.50	13.20	
2	220kV Geeta Colony – PatparganjCkt. II	At Geeta Colony : A phase, ABC, O/C, Pole Discrepancy At Patparganj : Supply fail	12.50	13.50	
3	220kV Pragati – I.P. Ckt. –I	At I.P. : 86 ABC, 86 At Pragati : No tripping.	12.50	13.06	
4	220/66kV 160MVA Tr. –II at Pragati	Tr. Tripped on REF, HV side, 86, 86	12.53	13.55	The Tr. Tripped while extending 220kV Supply by closing 220kV Bus coupler at 220kV Pragati.

### **System configuration during the incident**

Prior to the incident, GT Station was connected to Mandola side through 220kV IP Ext (Pragati) -IP -Patparganj - Geeta Colony –Wazirabad - Mandola Ckts. 220kV Bus coupler was open at Pragati s/stn. Unit-2 of Pragati station was synchronized with grid through 220kV Pragati – I.P. – Patparganj – Geeta Colony – Wazirabad – Mandola Link. Unit -1 & STG of Pragati station were synchronized with grid through 220kV Pragati – Sarita vihar – BTPS Link. This tripping caused the tripping of generating units at GT Str. & Pragati Unit –2. At 12.53hrs. 220kV Bus coupler closed at Pragati S/Stn and startup power extended to G.T. & Pragati Generating Station.

### **Generation Loss during disturbance :**

Name of Stn.	Unit No.	Generation prior to the incident in MW	Time		Remarks
			Tripping	Restoration	
G.T.	#6	22	12.50	13.33	
	#STG-3	10	12.50	14.10	
Pragati	#2	77	12.50	13.33	
<b>Total (MW)</b>		<b>109</b>			

### **Load affected during the incident is as under:-**

Name of the Grid	Time (Hrs)		Load in MW	Remarks
	From	To		
<b>PATPARGANJ</b>				
CBD-1	12:50	13:24	18	
PREET VIHAR	12:50	13:24	14	
GH-1	12:50	12:59	14	
GH-2	12:50	12:59	13	
KARKARDOOMA	12:50	13:24	11	
GURU ANGAD NAGAR	12:50	13:24	23	
KHICCHARIPUR	12:50	12:59	15	
<b>RPH</b>				
G B PANT	12:50	13:07	14	
KAMLA MARKET	12:50	13:07	18	
MINTO ROAD	12:50	13:07	8	
I G STADIUM	12:50	13:07	3	
DELHI GATE	12:50	13:07	5	
DDU MARG	12:50	13:07	5	
FOUNTAIN	12:50	13:07	3	
MOTIA KHAN	12:50	13:07	14	

Name of the Grid	Time (Hrs)		Load in MW	Remarks
	From	To		
<b>I.P.</b>				
KILOKARI	12:50	13:07	24	
LAJPAT NAGAR	12:50	13:05	11	
NIZAMUDDIN	12:50	13:06	22	
EXHIBITION-2	12:50	13:07	2	
<b>NDMC</b>				
SCHOOL LANE	12:50	12.54	12	
VIDYUT BHAWAN	12:50	12.54	15	
<b>TOTAL (MW)</b>			<b>264</b>	

viii) **Preliminary report on Grid Disturbance (GD-1) that occurred in Delhi system on 17.09.2015 at 400kV Bawana.**

The following tripping occurred in Delhi system on 17.09.2015 at 15.02hrs. at 400kV Bawana.

S. No	Name of the elements tripped	Relay indications	Time of tripping in Hrs.	Time of Restoration in Hrs.	Remarks
1	220kV Bawana – Rohini Ckt. –II	At Bawana : Dist Prot, 21Q, RYB Phase trip, Z-1, Z-2, Z-3, E/F, 186A, 186B. Fault location 676.6Mts. fault duration 1.25sec. At Rohini-1 : No tripping At Rohini –II : No tripping.	15.02	19.51	CB did not trip, Line was patrolled and no fault was found.
2	220kV I/C-I of 315MVA ICT-I	O/C, 86A & 86B,	15.02	16.23	
3	220kV I/C-II of 315MVA ICT-II	86A & 86B,	15.02	16.35	
4	220kV I/C-III of 315MVA ICT-III	86A & 86B,	15.02	16.21	
5	220kV I/C-IV of 315MVA ICT-IV	O/C, 86A & 86B,	15.02	16.45	
6	220kV I/C-V of 315MVA ICT-V	86A & 86B,	15.02	15.37	ICT remained connected at 400kV side.
7	220kV I/C-VI of 315MVA ICT-VI	86A & 86B,	15.02	15.37	

**Load affected during the incident is as under:-**

Name of the Grid	Time		Load in MW	Remarks
	From	To		
NARELA, A-7, NARELA, AZADPUR, BADLI, BALSWA, DSIDC NARELA-1, G.T.K. ROAD, JAHANGIR PURI, PITAM PURA - I, ROHINI - I	15.02	15:05	160	
A.I.R. KHAM PUR	15.02	15:10	17	
HAIDER PUR	15.02	15:19	10	
RANI BAGH	15.02	15:21	8	
DSIDC BAWANA, BAWANA-7, BAWANA C.W. BAWANA-1, DSIDC NARELA-1, DSIDC NARELA-2	15.02	15:22	106	
KANJHAWLA, BAWANA - 6, BAWANA CW, POOTH KHURD, ROHINI - II	15.02	15:22	160	
BAWANA - 6	15.02	15:27	24	
BAWANA - 7	15.02	15:30	23	
BADLI, ROHINI - VI	15.02	15:39	28	
220 KV SHALIMARBAGH, S.G.T.NAGAR, SMB- FC, SMB- KHOSLA, WAZIR PUR - II	15.02	15:46	58	
ASHOK VIHAR, AZAD PUR, G.T.K. ROAD, TRI NAGAR, WAZIR PUR-I, WAZIR PUR - II	15.02	15:46	107	
220 KV ROHINI, MANGOLPURI-II, PITAM PURA-I, PITAM PURA-II, ROHINI-I, ROHINI-III, ROHINI - IV, ROHINI-V, ROHINI DC-1, ROHINI SEC-22, ROHINI SEC -24	15.02	15:55	164	
TIGI PUR	15.02	15:58	6	
ROHINI SEC-28	15.02	16:10	5	
BODELA, JAFFARPUR, NAJAFGARH	15.02	15.06	80	
<b>TOTAL (IN MW)</b>			<b>956</b>	

ix) **Preliminary Report on Tripping (GD-1) occurred in Delhi system on 22.09.2015 at 400kV Bawana.**

The following tripping occurred in Delhi system on 22.09.2015

S. No	Name of the feeder/ Transformer tripped	Relay indications	Time of tripping in Hrs.	Time of Restoration in Hrs.	Remarks
1	400/220kV 315MVA ICT-I	At Bawana :86A &B, Bus Bar Protection Operated. 220kV I/C –I tripped on without indication	17:40	17:53	
2	400/220kV 315MVA ICT-IV	At Bawana : Bus Bar Protection Operated. 220kV I/C –IV tripped on without indication	17:40	17:54	
3	220kV Bus Coupler No. 2	Bus Coupler tripped on without indication	17:40	17:55	
4	220kV Bawana – Shalimarbagh Ckt.-I	At Bawana: Ckt. tripped on 186A &B. At Shalimarbagh: Supply fail	17:40	18:01	
5	220kV Bawana – Shalimarbagh Ckt.-II	At Bawana: Ckt. tripped on 186A &B. At Shalimarbagh: Supply fail	17:40	18:01	
6	220kV Bus Section –I & II	Bus Section tripped due to operation of Bus Bar protection	17:40	17:55	
7	220kV Bus Section –III & IV	Bus Section tripped due to operation of Bus Bar protection	17:40	19:29	
8	220kV Bawana – DSIDC Ckt.-I & II	--	17:40	17.54	Ckt. did not trip, however, supply failed due to tripping of 220kV Bus Section I & III

**Load affected during the incident is as under:-**

Name of the Grid	Time (Hrs)		Load in MW	Remarks
	From	To		
<b>220kV DSIDC BAWANA</b>				
220KV DSIDC BAWANA,BAWANA - 7,BAWANA-1,DSIDC NARELA - 1,DSIDC NARELA - 2	17:41	17:57	118	
BAWANA CLEAR WATER	17:41	17:52	9	
<b>220kV NARELA</b>				
220 KV NARELA,A - 7 NARELA,BADLI,DSIDC NARELA - 1,ROHINI - VI,ROHINI SEC-28	17:41	17:44	110	
220 KV SHALIMAR BAGH,S.G.T. NAGAR,SMB - KHOSLA,WAZIR PUR – II	17:41	18:10	48	
A.I.R. KHAM PUR	17:41	17:58	15	
AZAD PUR,BHALSWA,G.T.K. ROAD,JAHANGIR PURI	17:41	18:30	36	
HAIDER PUR	17:41	18:03	10	
PITAM PURA - I,ROHINI - I,ROHINI - V,ROHINI SEC - 24	17:41	18:15	58	
RANIBAGH CC	17:41	17:56	7	
ROHINI SEC – 22	17:41	17:54	28	
SMB – FC	17:41	17:57	13	
<b>220kV ROHINI</b>				
220kV ROHINI (11kV LOAD)	17:41	18:15	3	
<b>220kV WAZIRPUR</b>				
ASHOK VIHAR,AZAD PUR,G.T.K. ROAD,TRI NAGAR,WAZIR PUR - I,WAZIR PUR – II	17:41	18:05	90	
<b>TOTAL (IN MW)</b>			545	

x) **Preliminary report on tripping occurred in Delhi system on 24.09.2015.**

The following tripping occurred in Delhi system on 24.09.2015 at 18.56hrs.

At Sarita Vihar 220kV BTPS – Sarita Vihar Ckt. II & 220kV Bus-I was under shutdown for replacement of Y phase CVT and for conducting Tan Delta testing of Bus CVT. While normalizing the 220kV Bus-I at 18.50hrs. after clearance was obtained, the Insulator of R phase Isolator of 220kV Bus coupler of 220kV Bus –II got damaged and assembly fell down along with the jumper on the control cables near the Terminal Kiosk due to which DC Supply failed. Hence, 220kV BTPS-Sarita Vihar Ckt. –I, 220Kv Sarita Vihar – Pragati Ckt. –I & II , 100MVA Pr. Tr. I & II alongwith Incomers and 11kV I/C I & II manually made off. At the same time following trippings also occurred.

S. No	Name of the elements tripped	Relay indications	Time of tripping in Hrs.	Time of Restoration in Hrs.	Remarks
1	220kV BTPS – Sarita Vihar Ckt. I	<b>At BTPS :</b> R Phase Zone-II, Dist, Prot, Dist. 3KM, 18.5kAmps. Wave Trap Blast. <b>At Sarita Vihar :</b> No tripping.	18.56	19.35	Under shutdown by BTPS for attending to damaged wave trap.
2	220kV Pragati - Sarita Vihar-Ckt.- I	<b>At Pragati :</b> Active Group –I , Start phase AN, Trip Phase ABC, Zone-I fault duration 196.9ms., Location 8.535Kms. 186, 186. <b>At Sarita Vihar :</b> No tripping.	18.56	21.48	
3	220kV Pragati - Sarita Vihar-Ckt.- II	<b>At Pragati :</b> 186, 186, Distance Scheme and Prot, appeared on Anunciator panel. <b>At Sarita Vihar :</b> No tripping.	18.56	21.48	

- At 22.45hrs. : 220kV Sarita Vihar – BTPS Ckt. II was normalized.  
 At 23.35hrs. : 220/66kV 100MVA Pr. Tr. –II made on.  
 At 23.50hrs. : 220/66kV 100MVA Pr. Tr. –II tripped on pole discrepancy.  
 At 00.10hrs. (25.09.15) : 220/66kV 100MVA Pr. Tr. –II charged, 66kV I/C-II made on, 66kV Mathura Road Ckt I & II made on and load normalized.
- At 00.15hrs. (25.09.15) : Shutdown taken on 100MVA Pr. Tr. –I and 220kV Bus –II & 220kV Bus coupler at Sarita Vihar to attend damaged isolator and also for replacing control cable.  
 At 02.30hrs. (25.09.15) : 220kV Sarita Vihar – BTPS Ckt. I DC supply was normalized.  
 At 06.30hrs. (25.09.15) : 100MVA Pr. Tr. -1 charged
- At 09.50hrs. (25.09.15) : 220kV Sarita Vihar – BTPS Ckt. –I Bus and Line Isolator opened and earth link closed for giving shutdown to BTPS for replacement of damaged Wave Trap.

#### **System configuration during the incident**

Prior to the incident, GT Station was connected to Mandola side through 220kV IP Ext (Pragati)-IP-Patparganj-Geeta Colony –Wazirabad - Mandola Ckts. Unit -1 & STG of Pragati Stn. was connected to BTPS through 220kV Pragati – Sarita Vihar Ckt.-BTPS link catering the load of Parkstreet Ckts. 220kV Bus coupler was open at Pragati s/stn. Unit -2 of Pragati is under reserved shutdown due to non scheduling of power on merit order principle from 22.09.15 (16.16hrs.)

**Generation Loss during disturbance :** NIL

**Generation Status :**

Unit no. 1 and STG of Pragati were running in synchronized mode with BTPS through Pragati – Sarita Vihar – BTPS Link. When the trippings occurred (i.e. both 220kV Pragati – Sarita Vihar Ckts.) the above running units remained operational in Islanded condition with Park Street Load. There were U/f Trippings in the islanding mode (81 M-1, 81 M-2, 81 M-3 at 220kV Park Street) which led to successful Islanded operation of Pragati Units.

At 19.05hrs. 220kV Bus coupler at Pragati was made on through check synchronization and unit-I alongwith STG of Pragati were synchronized with Mandola.

**Load affected during the incident is as under:-**

Name of the Grid	Time		Load in MW	Remarks
	From	To		
<b>220kV SARITA VIHAR (BRPL)</b>				
66KV SARITA VIHAR	18:56	20:35	15	
JASOLA	18:56	20:10	10	
JAMIA	18:56	19:39	14	
SARAI JULLENA	18:56	20:10	15	
11kV LOAD AT 220kV SARITA VIHAR	18:56	20:45	10	
JASOLA, JAMIA, SARAI JULIANA, SARITA VIHAR & 11kV LOAD AT 220kV SARITA VIHAR	21.05	00.10 (25.9.15)	40	
<b>220kV PARK STREET (BYPL)</b>				
SHANKAR ROAD	18:56	19:18	11	
MOTIA KHAN	18:56	19:18	14	
PRASAD NAGAR	18:56	19:18	20	

#### **System contingency at 220kV Sarita Vihar**

S.N.	Name of feeder	Alternate source	Remarks
1	66kV Mathura Road Ckt. -I	The alternate source is from 220kV Okhla through 66kV Okhla -I – Mohan Cooperative ckt.	At 19.45hrs. 66kV Mathura Road ckt-I from Sarita Vihar was got back charged from BRPL so as to meet the 11kV load of 220kV Sarita Vihar, also the load of affected area was met by BRPL from 220kV Okhla S/Stn. through 66kV Okhla Ph-I – Mohan Cooperative Ckt. However, 66kV Okhla Ph-I – Mohan Cooperative Ckt. tripped due to fault in its cable at 21.04hrs. hence the area again remain affected upto 00.10hrs. (25.09.15).
2	66kV Mathura Road Ckt. -I		
3	66kV DMRC Ckt. -I	The alternate source is from 220kV Mehrauli	
4	66kV DMRC Ckt. -I		
5	11kV Load		4 nos. 11kV feeders namely Ali Village, Jaitpur, Sorav Vihar Ckt. -I and Ckt. -II have no back feed arrangement.

#### **xi) Report on tripping occurred in Delhi system on 12.10.2015.**

The following incident occurred at BTPS Generating Complex on 12.10.2015 at 22.05hrs.

S. No	Name of the elements tripped	Relay indications	Time of tripping in Hrs.	Time of Restoration in Hrs.	Remarks
1	220kV BTPS – Ballabgarh Ckt. I	At BTPS : Supply fail	22.05	1.42 of 13.10.15)	--
2	220kV BTPS – Ballabgarh Ckt. II	At BTPS : Supply fail	22.05	3.23 of 13.10.15)	--
3	220kV BTPS – Sarita Vihar Ckt. I	At BTPS : Supply fail At Sarita Vihar : Supply fail	22.05	22.37	
4	220kV BTPS – Sarita Vihar Ckt. II	At BTPS : Supply fail At Sarita Vihar : Supply fail	22.05	22.38	
5	220kV Pragati - Sarita Vihar-Ckt.-I & II	At Pragati : Supply fail At Sarita Vihar : Supply fail	22.05	22.31	220kV Bus coupler closed at Pragati S/Stn. at 22.18hrs. and supply extended to Sarita Vihar & BTPS.
6	220kV BTPS – Okhla Ckt. I & II	At BTPS : Supply fail At Okhla : Supply fail	22.05	02.04 (13.10.15)	--
7	220kV BTPS – Mehrauli Ckt. I	At BTPS : Supply fail At Mehrauli : Supply fail	22.05	Still out, problem in CB	220kV Bus coupler was opened at 21.52 hrs. at Mehrauli due to overloading of 220kV Bamnauli – Dail Ckt. I & II (260MW each ckt.)
8	220kV BTPS – Mehrauli Ckt. II	At BTPS : Supply fail At Mehrauli : Supply fail	22.05	22.22	
9	220kV BTPS- Alwar Ckt.	At BTPS : Supply fail At Alwar : Directional fault, O/C	22.05	03.32 of 13.10.15)	--

### **System configuration during the incident**

Prior to the incident, GT Station was connected to Mandola side through 220kV IP Ext (Pragati)-IP-Patparganj-Geeta Colony –Wazirabad - Mandola Ckts.

Unit -1 & STG of Pragati Stn. was connected to BTPS through 220kV Pragati – Sarita Vihar Ckt.-BTPS link catering the load of Parkstreet Ckts. 220kV Bus coupler was open at Pragati s/stn. Unit -2 of Pragati is under reserved shutdown due to non scheduling of power on merit order principle from 22.09.15 (16.16hrs.). 220kV Bus coupler was opened at Mehrauli at 21.52hrs. due to overloading of 220kV Bamnauli – Dail Ckt. I & II (260MW each ckt.).

### **Load Generation Balance prior to incidence :**

Name of Stn.	Unit No.	Generation prior to the incident in MW	Connected load prior to incident in MW
BTPS	#5	175	--
PRAGATI	#1	97	--
STG	STG	53	--
Okhla	--	--	182
Sarita Vihar	--	--	96
Mehrauli	--	--	60
Park Street	--	--	137
Import from Ballabgarh	--	--	20
Import from Alwar	--	--	151
<b>Total</b>	--	<b>325</b>	<b>646</b>

### **Generation Loss during disturbance :**

Name of Stn.	Unit No.	Generation prior to the incident in MW	Time (Hrs)	
			Tripping	Restoration
BTPS	#5	175	22.05	1.25
PRAGATI	#1	97	22.05	00.31
	STG	53	22.05	02.45 (13.10.15)
<b>TOTAL</b>		<b>325</b>		

### **Load affected during the incident is as under:-**

Name of the Grid	Time		Load in MW	Remarks
	From	To		
<b><i>BYPL</i></b>				
<i>MOTIA KHAN</i>	22:05	22:21	23	
<i>FAIZ ROAD</i>	22:05	22:21	18	
<i>SHANKAR ROAD</i>	22:05	22:21	11	
<i>PRASAD NAGAR</i>	22:05	22:21	24	
<i>ANAND PARBAT</i>	22:05	22:21	18	
<i>SHASHTRI PARK (C)</i>	22:05	22:21	15	
<i>GH-1</i>	22:13	22:22	17	
<i>VIVEK VIHAR</i>	22:13	22:20	17	
<i>KHICHLI PUR</i>	22:13	22:22	18	
<i>MAYUR VIHAR-I</i>	22:13	22:22	15	
<b><i>BRPL</i></b>				
<i>BIJWASAN</i>	22:05	22:30	22	
<i>BALAJI</i>	22:05	22:30	13	
<i>MALVIYA NAGAR</i>	22:05	22:30	58	<i>U/F Relay Tripping</i>
<i>NEHRU PLACE</i>	22:05	22:30	12	
<i>C-DOT</i>	22:05	22:30	40	
<i>VKJ D BLOCK</i>	22:05	22:30	15	<i>U/F Relay Tripping</i>
<i>BATRA</i>	22:05	22:35	33	
<i>JASOLA</i>	22:05	22:35	10	

Name of the Grid	Time		Load in MW	Remarks
	From	To		
SARAI JULLENA	22:05	22:35	18	
EAST OF KAILASH	22:05	22:58	13	
JAMIA	22:05	23:00	15	
MATHURA RD	22:05	23:09	13	U/F Relay Tripping
SARITA VIHAR	22:05	23:08	20	
OKHLA PH-2	22:05	24:00	18	
MCIE	22:05	24:00	20	
OKHLA PH-1	22:05	24:00	25	
220KV SARITA VIHAR(11kV LOAD)	22:05	22:32	16	U/F Relay Tripping
220KV MEHRAULI(11kV LOAD)	22:05	22:19	9	U/F Relay Tripping
220KV OKHLA(11kV LOAD)	22:05	23:40	12	
220KV MEHRAULI(11kV LOAD)	22:47	23:20	5	
MALVIYA NAGAR	22:49	23:30	58	
C-DOT	22:49	23:30	40	
VKJ D BLOCK	22:49	23:30	15	
BATRA	22:49	23:41	33	
SARAI JULLENA	23:50	24:00	10	
OKHLA PH-2	23:50	24:00	8	
TUGHLAKABAD	23:50	24:00	10	
MATHURA RD	23:50	24:00	5	

xii) **Preliminary report on tripping occurred in Delhi system on 13.10.2015.**

The following tripping occurred in Delhi system on 13.10.2015 at 220kV Pragati S /Stn.

S. No	Name of the elements tripped	Relay indications	Time of tripping in Hrs.	Time of Restoration in Hrs.	Remarks
1	220kV Pargati – Sarita Vihar Ckt. –I	At Pragati : 96T, 186 At Sarita Vihar : No tripping	12.58	13.25	Operation of bus bar protection
2	220kV Pargati – Sarita Vihar Ckt. –II	At Pragati : 96T, 186 At Sarita Vihar : No tripping	12.58	13.30	
3	220kV Pargati – Park Street Ckt. –I	At Pragati : 96 At Park Street : No tripping	12.58	14.41	
4	220kV Pargati – Park Street Ckt. –II	At Pragati : 96 At Park Street : No tripping.	12.58	13.26	

**System configuration during the incident**

Prior to the incident, GT Station was connected to Mandola side through 220kV IP Ext (Pragati) -IP -Patparganj - Geeta Colony –Wazirabad - Mandola Ckts. Unit 1 of Pragati Stn. was connected to BTPS through 220kV Pragati – Sarita Vihar Ckt.-BTPS link catering the load of Park Street Ckts. 220kV Bus coupler was open at Pragati s/stn. This tripping caused the tripping of generating units at Pragati.

**Generation Loss during disturbance :**

Name of Stn.	Unit No.	Generation prior to the incident in MW	Time		Remarks
			Tripping	Restoration	
Pragati	#1	91	12.58	13.58	
<b>Total (MW)</b>		<b>91</b>			

**Load affected during the incident is as under:-**

Name of the Grid	Time		Load in MW	Remarks
	From	To		
<b>NDMC</b>				
66kV B.D.MARG	12.58	13.25	16	
66kV SCHOOL LANE	12.58	13.25	5	
33kV HANUMAN ROAD	12.58	13.25	6	
33kV BRAID LOAD	12.58	13.25	6	
33kV NIRMAN BHAWAN	12.58	13.00	5	
<b>BYPL</b>				
MOTIA KHAN	12:58	13:22	22	
FAIZ ROAD	12:58	13:43	7	
SHANKAR ROAD	12:58	13:18	6	
PRASAD NAGAR	12:58	13:15	15	
<b>DMRC</b>				
33kV DAMPEL	12.58	13.00	13	
<b>TOTAL LOAD AFFECTED</b>			<b>101</b>	

xiii) **Preliminary Report on Tripping (GD-1) occurred in Delhi system on 22.09.2015 at 400kV Bawana.**

The following tripping occurred in Delhi system on 22.09.2015

S. No	Name of the feeder/ Transformer tripped	Relay indications	Time of tripping in Hrs.	Time of Restoration in Hrs.	Remarks
1	400/220kV 315MVA ICT-I	At Bawana :86A &B, Bus Bar Protection Operated. 220kV I/C –I tripped on without indication	17:40	17:53	
2	400/220kV 315MVA ICT-IV	At Bawana : Bus Bar Prot. Operated. 220kV I/C –IV tripped on without indication	17:40	17:54	
3	220kV Bus Coupler No. 2	Bus Coupler tripped on without indication	17:40	17:55	
4	220kV Bawana – Shalimarbagh Ckt.-I	At Bawana: Ckt. tripped on 186A &B. At Shalimarbagh: Supply fail	17:40	18:01	
5	220kV Bawana – Shalimarbagh Ckt.-II	At Bawana: Ckt. tripped on 186A &B. At Shalimarbagh: Supply fail	17:40	18:01	
6	220kV Bus Section – I & II	Bus Section tripped due to operation of Bus Bar Prot.	17:40	17:55	
7	220kV Bus Section – III & IV	Bus Section tripped due to operation of Bus Bar Prot.	17:40	19:29	
8	220kV Bawana – DSIDC Ckt.-I & II	--	17:40	17.54	Ckt. did not trip, however, supply failed due to tripping of 220kV Bus Section I & III

**Load affected during the incident is as under:-**

Name of the Grid	Time		Load in MW	Remarks
	From	To		
<b>220kV DSIDC BAWANA</b>				
220KV DSIDC BAWANA,BAWANA - 7,BAWANA-1,DSIDC NARELA - 1,DSIDC NARELA – 2	17:41	17:57	118	
BAWANA CLEAR WATER	17:41	17:52	9	

Name of the Grid	Time		Load in MW	Remarks
	From	To		
<b>220kV NARELA</b>				
220 KV NARELA,A - 7 NARELA,BADLI,DSIDC NARELA - I,ROHINI - VI,ROHINI SEC-28	17:41	17:44	110	
220 KV SHALIMAR BAGH,S.G.T. NAGAR,SMB - KHOSLA,WAZIR PUR - II	17:41	18:10	48	
A.I.R. KHAM PUR	17:41	17:58	15	
AZAD PUR,BHALSWA,G.T.K. ROAD,JAHANGIR PURI	17:41	18:30	36	
HAIDER PUR	17:41	18:03	10	
PITAM PURA - I,ROHINI - I,ROHINI - V,ROHINI - 24	17:41	18:15	58	
RANIBAGH CC	17:41	17:56	7	
ROHINI SEC - 22	17:41	17:54	28	
SMB - FC	17:41	17:57	13	
<b>220kV ROHINI</b>				
220kV ROHINI (11kV LOAD)	17:41	18:15	3	
<b>220kV WAZIRPUR</b>				
ASHOK VIHAR,AZAD PUR,G.T.K. ROAD,TRI NAGAR,WAZIR PUR - I,WAZIR PUR - II	17:41	18:05	90	
<b>TOTAL (IN MW)</b>			<b>545</b>	

xiv) **Report on tripping occurred in Delhi system on 21.11.2015.**

The following incident occurred in Delhi System on 21.11.2015 at 15.15hrs.

S. No	Name of the elements tripped	Relay indications	Time of tripping in Hrs.	Time of Restoration in Hrs.	Remarks
1	220kV Pragati - Sarita Vihar-Ckt.- I	At Pragati : Dist Prot , AB phase, Dist 6.31Kms., 186, 186 At Sarita Vihar : Dist Prot Z-I, A&B phase, 86A&B, Dist 2.681 Kms.	15.15	19.25	220kV Pragati - Sarita Vihar-Ckt.- II is under shutdown since 15.10.2015 for replacement of Zebra conductor with HTLS conductor.
2	220/33kV 100MVA Pr. Tr. - II at Park Street	Tr. Tripped on 90D, 80DC-1, 86A, 33kV I/C-II tripped on inter tripping	15.25	15.36	

**System configuration during the incident**

Prior to the incident, Unit -1 & STG of Pragati Stn. was connected to BTPS through 220kV Pragati – Sarita Vihar Ckt.-BTPS link catering the load of Parkstreet Ckts. 220kV Bus coupler was open at Pragati S/Stn. 220kV Pragati - Sarita Vihar-Ckt.- II is under shutdown since 15.10.2015 for replacement of Zebra conductor with HTLS conductor. Unit -2 of Pragati is under reserved shutdown due to non scheduling of power on merit order principle. Pragati STG tripped at 15.15hrs. However, Pragati Unit-I kept running in Islanding mode feeding Park Street Load for about 10 minutes but could not survive further and collapsed at 15.25hrs.

**Load Generation balance prior to incidence :**

Name of Stn.	Unit No.	Generation in MW	Load in MW	Remarks
Pragati	STG	56	--	STG tripped at 15.15hrs.
	#1	102	--	
Park Street	--	--	107	
<b>TOTAL</b>		<b>158</b>	<b>107</b>	

**Generation Loss during disturbance :**

Name of Stn.	Unit No.	Generation prior to the incident in MW	Time	
			Tripping	Restoration
PRAGATI	STG	56	15.15	18.43
	#1	102	15.25	16.21
<b>TOTAL</b>		<b>158</b>		

**Details of UFR Operation during the incident is as under:-**

Name of the Grid	Time		Load in MW	Remarks
	From	To		
<b>BYPL</b>				
33kV Parshad Nagar	15.15	15.36	8	
66kV Ridge Vally Ckt. -I	15.15	15.33	--	Charged on no load
<b>Total</b>			8	

**Load affected during the incident is as under:-**

Name of the Grid	Time		Load in MW
	From	To	
<b>BYPL</b>			
FAIZ ROAD	15.25	15.36	15
MOTIA KHAN	15.25	15.36	15
SHANKAR ROAD	15.25	15.36	12
<b>NDMC</b>			
BAIRD ROAD	15.25	15.26	08
NIRMAN BHAWAN	15.25	15.26	04
HANUMAN ROAD	15.25	15.26	06
B D MARG	15.25	15.26	10
STATE GUEST HOUSE	15.25	15.26	ON
SCHOOL LANE	15.25	15.26	ON
DAMPEL	15.25	15.26	10
<b>TPDDL</b>			
SHASTRI PARK (PUSA)	15.25	15.30	8
<b>Total</b>			88

xv) Preliminary report on trippings occurred in Delhi system on 08.01.2016.

The following tripping occurred in Delhi system on 08.01.2016 at 01.04hrs. onwards.

S. No	Name of the elements tripped	Relay indications	Time of tripping in Hrs.	Time of Restoration in Hrs.	Remarks
1	220kV Bawana – Kanjawala ckt. -I	At Bawana : Auto reclose lockout, Zone-1, ABC Ph, Distance 7.4Km. At Kanjawala : Main-2, RYB Phase, Zone-I, Dist. 8.1Km.	01:04	11:35	
2	220kV Bawana – Kanjawala ckt. -II	At Bawana : Auto reclose lockout, Dist. Protection operated At Kanjawala : Supply fail	01:52	10:57	
3	220kV Bawana – DSIDC Bawana ckt. -II	At Bawana : Zone-I, Group-I, 21X, R-1, R2 At DSIDC Bawana : Dist. Prot, zone-I, C phase, dist. 1.188KM	03:48	08:22	The ckt tried at 04.37 hrs and 08.16 hrs but could not hold on both attempts.
4	220kV Bawana – DSIDC Bawana ckt. -I	At Bawana : Zone-I, Group-I, dist 2.6Km. At DSIDC Bawana : 21, dist. Prot. 86	04:16	10:45	The ckt tried at 04.37 hrs, 08.18 hrs but the ckts tripped at 04.39 hrs and 08.22 hrs respectively.
5	220kV Bawana – Rohini ckt. -I	At Bawana : Auto reclose lockout, Zone-1, RPhase, Distance 4.81Km., 186 A&B At Rohini : Supply fail	05:28	11:46	
6	220kV Bawana – Rohini ckt. -II	At Bawana : Auto reclose lockout, Zone-1, B Phase, Distance 5.122Km., 186 A&B At Rohini : Supply fail	05:28	09:09	

S. No	Name of the elements tripped	Relay indications	Time of tripping in Hrs.	Time of Restoration in Hrs.	Remarks
7	220kV Bamnauli – Naraina ckt.-I	At Bamnauli : Zone-1, CPhase, Distance Prot, Pole discrepancy At Naraina : Dist prot, zone-I, A&C Phase, 86	01:53	02:25	
			09.22	14.48	
8	220kV Bamnauli– Naraina ckt. -II	At Bamnauli : Zone-1, CPhase, Distance 3.795Km., 186 A&B, Pole discrepancy At Naraina :supply fail	02.37	03.13	
			05.48	06.46	
9	220kV Bamnauli – DIAL ckt. -I	At Bamnauli : Zone-1, C Phase, Distance 3.0Km., 186 A&B At DIAL : Zone-1, B Phase	04.51	12.36 on 09.01.16	The ckt tried at 06.46hrs but could not hold.
10	220kV Bamnauli – DIAL ckt. -II	At Bamnauli : Zone-1, A Phase, Distance 3.6Km., 86 A&B At DIAL : RPhase, Gen. Prot, Trip	02.37	03.35	
11	220kV Wazirabad – Geeta Colony ckt. -II	At Wazirabad : General Trip, RYB Phase, B Phase, 86, Zone-I, Dist. 3.0Km At Geeta Colony : O/C , E/F, Zone-I , Dist 0.828KMs.	01.30	01.45	
12	220kV BTPS – Sarita Vihar ckt. –II	At BTPS : Zone-I, R phase, dist. 1.0Kms, At Sarita Vihar : Zone-I, A Phase, Dist 1.867kms. 186A&B	04.31	18.05	Problem in breaker at BTPS end.
13	220/66kV 100MVA –III at Sarita Vihar	Tr. Tripped on over flux operated and general trip	04.10	14.30 on 09.01.16	Transformer energized at 06.35hrs. it again tripped at 09.20hrs. on differential prot.
14	220kV Pragati – Sarita Vihar ckt. –II	At Pragati : Dist prot, 186 At Sarita Vihar : No tripping, CVT available at Pragati end.	04.32	04.51	
15	220kV Mandola – Narela Ckt. –I	At Mandola : R Phase, Zone-2, Dist 23.42Kms. At Narela : Supply fail	05:02	13:06	At 08.01hrs. ckt. charged but again tripped at 08.14hrs. on C phase zone-II , dist 19.0Kms. from Mandola
16	220kV Mandola – Narela Ckt. –II	At Mandola : RY Phase, Zone-II, Dist 19.46kms At Narela : R Phase, Zone-I, 0.208kms	04.41	13.06	
17	220kV Mandola – Gopalpur Ckt. –I	At Mandola : Zone-I, RYB Phase, Distance 8.04Kms. At Gopalpur : RYB Phase, zone-I, dist 0.0km	06.03	15.58	At 07.55hrs. ckt. tried hold ok, at 09.14hrs. ckt. again tripped on Zone-II, RYB Phase, Dist 22.12Kms from Mandola end.
18	220kV Mandola – Gopalpur Ckt. –II	At Mandola : RYB Phase, E/F, Zone-I, Distance 7.88Kms. At Gopalpur : RYB Phase, zone-I, dist 8.5km	04.43	05.34	At 06.03hrs again tripped on disc flash on tower no. 26 ckt. charged on 09.01.16 at 15.38hrs.
19	220kV Mandola – Wazirabad Ckt. –II	At Mandola : RYB Phase, Zone-I, Distance 6.97kms. At Wazirabad : Zone-I, RYB Phase, Dist. 4.9kms.	06.44	17.42	At 07.18hrs, the ckt tried from wazirabad but SOTF occurred
20	220kV Panipat – Narela Ckt. –II	At Narela :Zone-I, Dist prot, C Phase, distance 30Mts.	05.50	14.23	BBMB Line

S. No	Name of the elements tripped	Relay indications	Time of tripping in Hrs.	Time of Restoration in Hrs.	Remarks
21	220kV Panipat – Narela Ckt. –III	At Narela : zone-I, Distance 24.77Kms.	06.56	16.25	BBMB Line
22	220kV Rohtak Road – Narela Ckt. –I	At Narela :Dist prot, distance 7.2Kms.	04.45	11.17	BBMB Line
23	220kV Rohtak Road – Narela Ckt. –II	At Narela : Dist prot, Zone-I	04.05	11.23	BBMB Line
24	220kV Mundka – Kanjawala ckt.	At Mundka : Pole discrepancy, Dist Prot, Zone-I, Y Phase, Distance 13.0KMs., 86 At Kanjawala : General Trip, RYB Phase, Zone-I, Main-I, RYB, Main-II, RYB	05.19	18.05	At 06.21hrs. ckt. tried and hold ok but again tripped at 06.25hrs. on same relays from Kanjawala
25	220kV Kanjawala – Najafgarh Ckt.	At Kanjawala : Dist Prot, Distance 9.9Kms. Main-I, RYB, Main-II, RYB At Najafgarh : No tripping.	05.19	10.29	At 06.47hrs. ckt. tried and hold ok but again tripped at 07.00hrs. on Dist Prot, B Phase, Dist 1 Km. from Najafgarh end.
26	220kV Wazirabad – Gopalpur Ckt. – II	At Wazirabad : Y Phase tripped, Zone-I, Dist 2.106KMs At Gopalpur : No tripping	06.50	18.11	
27	220kV Maharani Bagh – Trauma Center ckt. –I	At Maharani Bagh :E/F At Trauma Center : O/C	01.53	12.20	The Ckt. tried at 02.15hrs., 03.04hrs. & 03.31hrs. but tripped at 2.37hrs. 3.05hrs. 3.32hrs. respectively
28	220KV Btps- Noida-Gazipur	At Btps : R Phase, Dist Prot, Distance 1.0KMs At Gazipur : No tripping	09.20	17.07	UPPCL Line

#### System configuration during the incident

Prior to the incident, GT Station and Unit -2 of Pragati Stn. was connected to Mandola side through 220kV IP Ext (Pragati) - IP -Patparganj - Geeta Colony –Wazirabad - Mandola Ckts. Unit -1 & STG of Pragati Stn. was connected to BTPS through 220kV Pragati – Sarita Vihar Ckt.-BTPS link catering the load of Parkstreet Ckts. 220kV Bus coupler was open at Pragati s/stn. 220kV Pragati - Sarita Vihar ckt. –I was under shutdown for augmentation work and tripping of 220kV Pragati – Sarita Vihar ckt.–II caused the islanding of Pragati Units and subsequent collapse. 220kV supply from BTPS was extended to Pragati by reviving 220kV Pragati - Sarita Vihar ckt. –II.

#### Generation Loss during disturbance :

Name of Stn.	Unit No.	Generation prior to the incident in MW	Time		Remarks
			Tripping	Restoration	
Pragati	#1	82	04.46	05.15	Unit again tripped on 09.37hrs. and synchronized at 11.13hrs.
	STG	106	04.33	14.28	
<b>Total (MW)</b>		<b>188</b>			

xvi) **Preliminary report on trippings occurred in Delhi system on 19.01.2016.**

The following tripping occurred in Delhi system on 19.01.2016 at 00:49 hrs. onwards due to fog.

S. No	Name of the elements tripped	Relay indications	Time of tripping in Hrs.	Time of Restoration in Hrs.	Remarks
1	400kV Bawana – Depalpur Ckt.	At Bawana : Ckt. tripped on intertripping	00.43	18.29	PGCIL Line
2	220kV I.P.- Patparganj Ckt. -II	At I.P. : 86, 186, Dist prot, Z-I, ABC Phase, At Patparganj : 186, 186, dist prot, trip ABC	00.49	01.12	
3	220kV I.P.- Patparganj Ckt. -I	At I.P. : 86, 186, Z-I, ABC Phase, Dist 1.78km At Patparganj : 86X, dist prot, C phase	01.28	01.35	
4	220kV I.P.- Patparganj Ckt. -II	At I.P. : 86, 86 At Patparganj : 186, 186, trip ABC, 86X	01.26	15.40	Bottom phase string decapped at tower no 6
5	220kV Najafgarh – Kanjawala ckt.	At Kanjawala : R phase, zone-I, dist 12.13km At Najafgarh : ckt. already off	01.31	19.01	Top phase suspension string decapped at tower no. 163
6	220/66kV Tr. -I at Kanjawala	Tripped on E/F	01.24	01.39	
7	220/66kV Tr. -I at Kanjawala	Tripped on E/F	01.24	01.39	
8	220kV Bawana – DSIDC Bawana Ckt. -II	At Bawana : Dist prot, Auto Reclose, A-G fault, CB trouble alarm At DSIDC Bawana : Dist prot, A phase, Main I&II, Dist 3.1km.	01.26	10.27	
9	220kV Bawana – DSIDC Bawana Ckt. -I	At Bawana : Dist prot, Zone-I, Dist 2.33Km At DSIDC Bawana : Dist prot, dist2.02Km, A phase, Main-I &II	01.53	01.58	
10	220kV Bawana – Rohini Ckt. -II	At Bawana : Auto reclose lock out, Dist prot, Zone-I, Y phase, Dist 2.07Km At Rohini -II: Zone-I &II, SOTF, Y Phse, Pole discrepancy	02.05	07.27	

S. No	Name of the elements tripped	Relay indications	Time of tripping in Hrs.	Time of Restoration in Hrs.	Remarks
11	400/220kV 315 MVA ICT-III at Bawana	ICT Tripped on 86B, Group-I, Fuse fail 197, O/C, B phase, 167I. 220kV I/C-III, tripped on intertrip	02.05	02.49	
12	220kV Mundka – Kanjawala ckt.	At Mundka : Dist prot, Zone-I, Y Phase At Kanjawala : No tripping	02.10	07.54	
13	220kV Mandola – Gopalpur ckt.-I	At Gopalpur : Dist Prot, Zone-I, Dist 10.3Km, RYB Phase, At Mandola : E/f, Dist Prot, Y phase -G	02.16	14.20	
14	220kV Mandola – Gopalpur ckt.-II	At Gopalpur : Dist Prot, Zone-I, Dist 10.3Km, RYB Phase, At Mandola : E/f, Dist Prot, Y phase -G	02.17	19.35	Bottom ph. insulator string broken at Tower no-20.
15	220kV Rohtak Road – Narela Ckt. –I	At Narela :Dist prot,Z-1, distance 3.05Km. RYB Phase	02.19	03.10	BBMB Line
16	220kV DIAL – Bamnauli Ckt-II	At DIAL : R Phase trip At Bamnauli : Dist prot, Zone-I, A phase, dist 3.1Km, 186 A&B	02.56	06.38	
17	220kV LP.- Patparganj Ckt. –I	At LP. : Dist prot, Z-I, Dist 1.83km, ABC Phase At Patparganj : Dist prot, Zone-I, Dist 1.98Km, C phase, 186	03.15	03.32	
18	220kV Mandola – Wazirabad Ckt. –III	At Wazirabad : Dist prot, zone-I, ABC Phase At Mandola : B-N Phase	05.00	15.30	Flash observed at tower no. 27, disc insulator damaged at tower no. 27 & 34
19	220kV Mandola – Wazirabad Ckt. –IV	At Wazirabad : Dist prot, zone-I, Dist 7.48km, At Mandola : Dist prot, Dist 7.7km, B-N Phase	04.58	16.31	Disc insulator damaged at tower no. 27 & 34
20	220kV Narela – Mandola Ckt. –II	At Nrela : Dist prot, zone-I, R phase	05.34	06.12	
21	220/66kV 100MVA Tr.-III At DSIDC Bawana	O/C, E/F, 86	06.58	07.00	

#### System configuration during the incident

Prior to the incident, GT Station was connected to Grid through 220kV IP Ext (Pragati) -IP -Patparganj - Geeta Colony – Wazirabad - Mandola Ckts. Unit -2 & STG of Pragati Stn. was connected to BTPS through 220kV Pragati – Sarita Vihar Ckt.-BTPS link catering the load of Parkstreet Ckts. 220kV Bus coupler was open at Pragati s/stn. Tripping of 220kV Patparganj – I.P. Ckt. –I at 01.28hrs. and 220kV I.P. – Patparganj Ckt. –II at 01.26hrs. caused the islanding of G.T.Units from Grid and subsequent collapse. However, 220kV I.P. – Patparganj Ckt. –I was charged at 01.35hrs. and supply was extended to G.T. .

#### Generation Loss during disturbance :

Name of Stn.	Unit No.	Generation prior to the incident in MW	Time		Remarks
			Tripping	Restoration	
G.T. Stn.	#1	27	01.41	--	G.T.-2 Synchronized at 03.35hrs instead of G.T.-1.
	STG	10	01.41	05.40	
<b>Total (MW)</b>		<b>37</b>			

xvii) **Preliminary report on trippings occurred in Delhi system on 22.01.2016.**

The following tripping occurred in Delhi system on 22.01.2016 at 01:27hrs. onwards due to fog.

S. No	Name of the elements tripped	Relay indications	Time of tripping in Hrs.	Time of Restoration in Hrs.	Remarks
1	220kV Narela – DSIDC Bawana Ckt. –II	At Narela : Ckt. off. At DSIDC Bawana : Dist prot, Zone-1, B Phase dist 1.345Km,	01.27	11.40	
2	220kV Mandola – Wazirabad Ckt. –III	At Wazirabad : Dist prot, zone-I,	3.16	19.28	Earth wire snapped between tower no. 17-25 and disc insulator decapped at tower no. 24
3	220kV Rohtak Road – Narela Ckt. –II	At Narela : Dist prot, Z-1, ABC Phase, distance 7.9Km.	3.39	Still out	BBMB Line
4	400kV Bawana – Depalpur Ckt.	At Bawana : Auto reclose, 186 A&B, DC-1 Faulty	03.35	11.11	PGCIL Line
5	220kV Bawana – Rohini Ckt. –I	At Bawana : Dist prot, Zone-I, R Phase, Dist. 4.8Km. At Rohin Supply fail	04.06	10.45	
6	220kV Bawana – Rohini Ckt. –II	At Bawana : Dist prot, Zone-I, B Phase, Dist. 4.346Km. At Rohin : Supply fail At Rohini-II : Dist prot, Zone-2, R Phase, General trip, fuse fail	04.14	19.09	
7	220kV Narela- Mandola Ckt. –II	At Narela : Dist prot, Zone-1, R Phase, Dist 6.69Km., 186	04.25	12.26	At 06.55hrs. ckt. tried but did not hold.
8	220kV Narela- Mandola Ckt. –I	At Narela : Supply fail At Mandloa : Ckt. tripped	04.31	12.26	At 07.24hrs. ckt. tried but did not hold.
9	220kV Rohtak Road – Narela Ckt. –I	At Narela : Dist prot, Z-1, ABC Phase, distance 9.4Km. , B-N	04.32	Still out	BBMB Line, At 06.20hrs. ckt. tried but did not hold
10	220kV Bawana – DSIDC Bawana Ckt. –I	At Bawana : Dist prot, Z-I, Auto reclose, At DSIDC Bawana : Dist prot, dist 1.222Km, B phase,	04.29	10.19	At 06.05hrs. & 06.06hrs ckt. tried but did not hold.
11	220kV Bawana – DSIDC Bawana Ckt. –II	At Bawana : Dist prot, Z-I, Dist 1.22Km At DSIDC Bawana : Dist prot, Z-1, dist 3.98Km, B phase,	04.36	05.05	
12	220kV Bawana – DSIDC Bawana Ckt. –II	At Bawana : Dist prot, Z-I, Dist 1.22Km At DSIDC Bawana : Dist prot, Z-1, dist 3.98Km, B phase,	05.05	05.28	
13	220kV Narela – DSIDC Bawana Ckt. –I	At Narela : Ckt. off. At DSIDC Bawana : Dist prot, Zone-1, dist 4.908Km,	04.31	11.39	
14	220kV Mandola – Gopalpur ckt.-I	At Gopalpur : Dist Prot, Zone-I, Dist 14.9Km,	04.48	06.55	
15	220kV Mandola – Gopalpur ckt.-II	At Gopalpur : Dist Prot, Zone-I, Dist 3.1Km, RYB Phase,	04.54	18.43	At tower no. 323A jumper snapped
16	220/66kV 100MVA Tr. –II at Narela	Tripped on without indication	04.55	07.19	
17	220kV Bawana – Kanjawala ckt.-I	At Kanjawala : Dist Prot, Z-1, RYB phase, dist 8.4Km At Bawana : Dist Prot, Z-1	05.32	09.58	
18	220kV Bawana – DSIDC Bawana Ckt. –II	At Bawana : Dist prot, Z-I, Dist 1.22Km At DSIDC Bawana : Dist prot, Z-1, dist 0.75Km.	05.28	10.19	

S. No	Name of the elements tripped	Relay indications	Time of tripping in Hrs.	Time of Restoration in Hrs.	Remarks
19	220kV Wazirabad – Gopalpur ckt.-I	At Wazirabad : Dist Prot, Zone-I,II & III, Dist 3.141Km,	06.26	16.17	
20	220kV Mandola – Wazirabad Ckt. –II	At Wazirabad : Dist prot, zone-I, II & III, Dist 10.29Km.	06.31	15.24	At 07.05hrs. ckt. tried but tripped on Dist prot, Dist 9.123Km., SOTF Insulator decapped at Tower no. 28
21	220kV Mandola – Wazirabad Ckt. –I	At Wazirabad : Dist prot, zone-I, II & III, Dist 6.496Km. B Phase.	06.31	16.37	At 07.02hrs. ckt. tried but tripped on Dist prot, Zone-I, Dist 6.347Km., SOTF Insulator decapped at Tower no. 28
22	220kV Maharani Bagh – Gazipur Ckt. –II	At Maharani Bagh : Dist prot, Zone-II, Dist 10.2Km. At Gazipur : Dist prot, Y Phase, Zone-III, Dist 2.09Km. Auto Reclose	06.50	07.10	
23	220kV Bus coupler at Gazipur	Bus coupler tripped on O/C, E/F	06.50	07.04	

The details of load shedding which occurred during trippings on account of fog are given hereunder:

#### BYPL AREAS

TIME		MW	AREA / GRID	REMARKS  DUE TO TRIPPING OF 220kV MANDOLA(400kV)-WAZIRABAD CKT.-I,II&III AND THEREBY OVERLOADING OF CKT.-IV
FROM	TO			
06:36	07:19	11	KANTI NAGAR	
06:36	07:19	7	SHAKARPUR	
06:36	07:19	6	KAILASH NAGAR	
06:36	08:10	7	SHASTRI PARK(E)	
06:36	07:19	13	GEETA COLONY	
06:36	06:41	10	SONIA VIHAR	
06:36	08:48	20	YAMUNA VIHAR	
06:36	06:51	10	BHAGIRATHI	
06:36	07:09	11	GH-1	
06:36	07:09	9	GH-2	
06:36	07:09	1	PPG INDUSTRIAL AREA	
06:36	08:45	12	DWARWA PURI	
06:36	08:50	12	SEELAMPUR	

TIME		MW	AREA / GRID	REMARKS
FROM	TO			
06:48	07:07	7	220KV PPG	DTE TO TRIPPING OF 220kV MAHARANI BAGH(400kV) - GAZIIPUR CKT.-I&II
06:48	07:05	3	220KV GAZIPUR	
06:48	07:35	9	KONDLI	
06:48	07:35	8	DALLUPURA	
06:48	07:35	9	MVR-2	
06:48	07:45	12	MVR-1	
06:48	07:35	3	NEW KONDLI	
06:48	07:06	11	CBD-1	
06:48	07:05	10	CBD-2	
06:48	07:05	17	VIVEK VIHAR	
06:48	07:06	10	PREET VIHAR	
06:48	07:06	14	GURU ANGAD NAGAR	
06:48	07:06	8	KARKARDOOMA	
06:48	07:05	5	JHILMIL	
06:48	08:10	14	KHICHRIPUR	
06:48	07:05	2	PPG INDUSTRIAL AREA	
06:48	07:06	4	SHAKARPUR	
08:48	09:48	28	KARAWAL NAGAR	DUE TO TRIPPING OF 220kV MANDOLA(400kV)-WAZIRABAD CKT.-I,II&III AND THEREBY OVERLOADING OF CKT.-IV
08:48	09:41	18	KANTI NAGAR	
08:52	10:20	11	PRASAD NAGAR	
09:22	10:12	10	KAILASH NAGAR	
09:48	10:33	10	CBD-1	
10:00	11:00	31	GHONDA	
10:02	11:02	10	GT ROAD	
10:13	11:03	6	GT ROAD	
10:33	11:08	9	CBD-1	
11:00	11:50	19	EAST OF LONI ROAD	
11:00	12:00	8	BHAGIRATHI	
12:00	12:15	7	BHAGIRATHI	

#### TPDDL AREAS

TIME		MW	AREA / GRID	REMARKS
FROM	TO			
04:36	05:05	10	<u>220kV DSIDC BAWANA</u> 220KV DSIDC BAWANA, BAWANA CW, BAWANA-I,SMB - KHOSLA	
04:36	05:00	9	BAWANA-I	
04:36	04:55	6	BAWANA CW,SMB - KHOSLA	
05:15	07:50	15	11kV LOAD	

TIME		MW	AREA / GRID	REMARKS
FROM	TO			
			<b><u>220kV GOPALPUR</u></b>	
06:25	06:30	3	CIVIL LINE (NEW)	
06:25	07:05	12	DIFR,HUDSON LINE,INDIRA VIHAR	
06:25	06:48	8	WAZIRABAD	
04:54	04:56	6	HUDSON LINE,INDIRA VIHAR	
06:25	06:40	4	JAHANGIR PURI	
04:54	04:56	12	JAHANGIR PURI,PITAM PURA - III,S.G.T. NAGAR,TIGI PUR	
06:25	06:33	12	PITAM PURA - III	
06:25	06:33	13	S.G.T. NAGAR,TIGI PUR	
			<b><u>220kV NARELA</u></b>	
04:31	04:39	3	11kV LOAD	
04:31	04:39	40	A - 7 NARELA,DSIDC NARELA - 1,DSIDC NARELA - 2	
04:31	04:39	28	AZAD PUR,BHALSWA,G.T.K. ROAD,JAHANGIR PURI,PITAM PURA - I,ROHINI - I	
04:31	04:39	12	BADLI	
			<b><u>220kV ROHINI</u></b>	
04:06	04:11	1	11kV LOAD	
04:14	04:18	0.3	11kV LOAD	
04:14	04:18	19	A.I.R. KHAM PUR,PITAM PURA - I,PITAM PURA - II,PRASHANT VIHAR,ROHINI - I,ROHINI - V	
04:14	04:18	8	ROHINI SEC - 22,ROHINI SEC - 24	
04:06	04:11	43	MANGOL PURI - I,MANGOL PURI - II,PITAM PURA - II,ROHINI D C-1	
04:06	04:11	9	ROHINI - III,ROHINI - IV	
			<b><u>220kV SUBZI MANDI</u></b>	
06:25	07:05	12	DELHI UNIVERSITY,GULABI BAGH	
06:25	06:55	18	SHAHZADA BAGH,TRIPOLIA	
06:25	06:45	4	SHAKTI NAGAR	
			<b><u>WAZIRPUR - III</u></b>	
10:13	10:30	30	SHAHZADA BAGH,WAZIR PUR - I&II	TRIPPING OF 33kV I/C-II DURING CHANGE OVER OF 100 MVA PR.TR.-II AT 220kV WAZIRPUR

#### BBMB

TIME		MW	AREA / GRID	REMARKS
FROM	TO			
<b><u>BRPL</u></b>			<b><u>220kV BBMB ROHTAK ROAD</u></b>	
04:32	04:41	4	VISHAL	DUE TO TRIPPING OF 220kV NARELA-BBMB ROHTAK ROAD CKT.-I&II
04:32	06:39	2	SB MILL	
04:32	06:04	1	DLF	
04:32	10:39	5	11kV LOAD	

TIME		MW	AREA / GRID	REMARKS
FROM	TO			
<b>TPDDL</b>			<b>220kV BBMB ROHTAK ROAD</b>	
04:32	04:38	3	DLF KIRTI NAGAR	
04:32	04:42	4	RAMA ROAD	
04:32	04:48	12	RAM PURA	
04:32	05:45	1	ROHTAK ROAD	
04:32	04:53	3	SUDARSHAN PARK	

xviii) **Preliminary report on trippings occurred in Delhi system on 24.01.2016.**

The following tripping occurred in Delhi system on 24.01.2016. Onwards due to fog.

S. No	Name of the elements tripped	Relay indications	Time of tripping in Hrs.	Time of Restoration in Hrs.	Remarks
1	220kV LP.-Patparganj Ckt. -II	At LP. : 86, 186, Dist protection At Patparganj : 186, 186,86 dist 1.889KM, trip ABC	04.35	17.23	
2	220kV LP.-Patparganj Ckt. -I	At LP. : 86, 186, Z-I, ABC Phase At Patparganj : 86X, dist 1.945KM,B phase,ABC phase.	05.47	09.33	
3	220kV Najafgarh – Kanjawala ckt.	At Kanjawala : R phase, zone-I, dist prot.,dist 10.22km At Najafgarh : Z-2,186,86	06.15	10.58	
4	220KV Mundka-Kanjhawla	At Kanjhawla: MainII,Dist prot.,Z-I, 30.4% At Mundka: Dist. Prot.,Z-I	06:15	10:54	
5	220kV Bawana – DSIDC Bawana Ckt. – I	At Bawana : Dist prot, Auto Reclose, A-G fault, B phase-G, 0.96KM. At DSIDC Bawana : Dist prot, A phase, Main II, Dist 4.339km.	06.25	11.11	
6	220kV BTPS – Gazipur	At BTPS : Zone-I, R phase, Dist 2.0Km,E/F At Gazipur: no tripping as breaker was in off position	06.45	14.24	
7	220kV SOW – Gopalpur ckt.-I	At Gopalpur :no tripping breaker was in off position. At SOW : E/f, Dist Prot, Y phase – G	07.56	09.52	
8	220kV SOW– Gopalpur ck.-II	At SOW : Dist Prot, Zone-I, Dist 499.3m,Y Phase, At GPL : ckt at No Load	04.26	09.51	
9	220kV Mandola – Wazirabad Ckt. –I	At Wazirabad : Dist prot, zone-I, ABC Phase,6.8KM,L-2phase At Mandola : RYBPhase	05.56	15.24	disc insulator damaged at tower no. 15
10	220kV Mandola – Wazirabad Ckt. –II	At Wazirabad : Dist prot, zone-I, Y-phase,Dist 4.312km,B-N At Mandola : Dist prot,	08.02	09.27	
11	220/66kV 100MVA Tr.-I At SOW	E/F, 86 66KV I/C-I tripped on 86	08.02	09.19	Xmer tripped along with 220KV(Mnd-Wzb)ckt II
12	66kV I/C.-II At SOW	O/C,R-phase	08.02	09.28	I/C tripped along with 220KV(Mnd-Wzb)cktII

S. No	Name of the elements tripped	Relay indications	Time of tripping in Hrs.	Time of Restoration in Hrs.	Remarks
13	220/66kV 100MVA Tr.-III At SOW	E/F, 86 66KV I/C-III tripped on 86	08.02	09.19	Xmer tripped along with 220KV(Mnd-Wzb)ckt I&II
14	220/66KV 160MVA Tr-I at GT	No tripping at 220KV side 66KV side tripped Without indicat <sup>n</sup> at GT.	05:48	06:04	Due to tripping of IP-PPg ckt I&II and islanding of GT
15	220/66KV 160MVA Tr-II at GT	No tripping at 220KV side 66KV side tripped Without indicat <sup>n</sup> . at GT.	05:48	06:04	Due to tripping of IP-PPg ckt I&II and islanding of GT

#### **System configuration during the incident**

Prior to the incident, GT Station was connected to Grid through 220kV IP Ext (Pragati) -IP -Patparganj - Geeta Colony – Wazirabad - Mandola Ckts. Unit -2 & STG of Pragati Stn. was connected to BTPS through 220kV Pragati – Sarita Vihar Ckt.-BTPS link catering the load of Parkstreet Ckts. 220kV Bus coupler was open at Pragati s/stn. Tripping of 220kV Patparganj – I.P. Ckt. –I at 01.28hrs. and 220kV I.P. – Patparganj Ckt. –II at 01.26hrs. caused the islanding of G.T.Units from Grid and subsequent collapse. However, 220kV B/C at IP Extension was put on at 06:00 hrs and supply was given to G.T. .

#### **Generation Loss during disturbance :**

Name of Stn.	Unit No.	Generation prior to the incident in MW	Time		Remarks
			Tripping	Restoration	
G.T. Stn.	#2	27	05.48	06.04	FSNL
	STG-I	10	05.48	08.13	
Pragati stn	STG	52	05:48	11.28	
<b>Total (MW)</b>		<b>89</b>			

#### **Shedding details**

This is in continuation to the preliminary report dt. 24.01.2016 regarding grid disturbance occurred in Delhi system.

In this regard, the details of load shedding which occurred during trippings on account of fog are given hereunder:  
BYPL AREAS

TIME		MW	AREA / GRID	REMARKS
FROM	TO			
05:47	06:02	2	DDU	DUE TO TRIPPING OF 220KV MANDOLA - WAZIRABAD CKT-I & II AND 220KV IP - PATPARGANJ CKT-I & II DUE TO DENSE FOG
05:47	06:02	2	DELHI GATE	
05:47	05:59	1	FOUNTAIN	
05:47	06:02	6	GB PANT	
05:47	06:02	3	IG STADIUM AND IP ESTATE	
05:47	06:02	6	JAMA MASJID	
05:47	06:02	9	KAMLA MARKET	
05:47	06:02	5	MINTO ROAD	
05:47	05:59	5	LAHORI GATE	

**BRPL AREAS**

05:50	06:00	15	KILOKARI	DUE TO TRIPPING OF 220KV IP - PATPARGANJ CKT-I & II DUE TO DENSE FOG
09:15	09:40	16	SARITA VIHAR	DUE TO OUTAGE OF 220KV BTPS - SARITA VIHAR CKT.-II

**TPDDL AREAS**

07:56	08:00	10	DIFR, WAZIRABAD	DUE TO TRIPPING OF 33KV GOPALPUR - WAZIRABAD CKT-I & II
-------	-------	----	-----------------	---

xix) **Preliminary report on trippings occurred in Delhi system on 01.03.2016.**

The following tripping occurred in Delhi system on 01.03.2016 at 16.20hrs.

S. No	Name of the elements tripped	Relay indications	Time of tripping in Hrs.	Time of Restoration in Hrs.	Remarks
1	220/66kV 160MVA Tr.-I at 220kV Pragati	At Pragati Tr. Tripped on 86 & intertrip At GTPS I/C tripped on O/C	16.20	17.26	66kV Vidyut Bhawan Ckt. -II & School Lane Ckt. -II tripped on Dist Prot (B Phase conductor snapped on 66kV Vidyut Bhawan Ckt. -II)
2	220/66kV 160MVA Tr.-II at 220kV Pragati	At Pragati Tr. Tripped on 86 & intertrip, 51CX At GTPS I/C tripped on O/C	16.20	17.39	

**System configuration during the incident**

Prior to the incident, GT Station (Unit 5 & STG-3) was connected to Mandola side through 220kV IP Ext (Pragati) -IP - Patparganj - Geeta Colony –Wazirabad - Mandola Ckts.

**Generation Loss during disturbance :**

Name of Stn.	Unit No.	Generation prior to the incident in MW	Time		Remarks
			Tripping	Restoration	
GT Stn.	Unit-5	26	16.20	18.05	Tripping of 160MVA Tr. I & II at 220KV Pragati .
	STG-3	10	16.20	18.17	
<b>Total (MW)</b>		<b>36</b>			

**Load Affected:**

18MW of load affected from 16.20hrs to 16.35Hrs in NDMC Area.

**Report on trippings 315MVA –IV at Bawana on 08.03.2016 at 12.01hrs.**

The following tripping occurred in Delhi system on 08.03.2016 at 12.01hrs.

S. No	Name of the elements tripped	Relay indications	Time of tripping in Hrs.	Time of Restoration in Hrs.	Remarks
1	400/220kV ICT -IV at Bawana	ICT tripped on Diff protection 87 T1, Diff 3-ph Trip, Diff R-ph Trip, Diff Y-ph Trip, Diff B-ph Trip, WTI/PRV Trip, 67.1 O/C & E/F Protection, 64 T2 REF Protection, REF Trip, Buchholz Trip, OLTC Buchholz Y- phTrip	12.01	18.02 (19.05.16)	HV/MV/LV Busing damaged resulting into fire and 400/220kV ICT-IV caught fire.

**xx) Preliminary report on trippings occurred in Delhi system on 12.03.2016 due to storm.**

The following tripping occurred in Delhi system on 12.03.2016 at 17:19 hrs. onwards due to rain and thunderstorm.

S. No	Name of the elements tripped	Relay indications	Time of tripping in Hrs.	Time of Restoration in Hrs.	Remarks
1	400kV Bawana -Mundka Ckt-I	At Bawana : No tripping. At Mundka: Main-1& II : pole discrepancy, 286 LO, A/R 186 LO	17.35	18:07	DTL Line.
2	400kV Bawana – Mundka Ckt-II	At Bawana : No tripping. At Mundka :286 LO, A/R, 186 LO.	17:35	18:07	DTL Line.
3	400KV CCGT Bawana (PPCL) – Bahadurgarh Ckt	At CCGT Bawana. : LBB and Differential protection on 400kV Bus-I	17:37	22:41	PGCIL Line
4	400KV CCGT Bawana – Bhiwani Ckt.	At CCGT Bawana. : LBB and Differential protection on 400kV Bus-I	17:37	08.28 dt 13.03.16	PGCIL Line
5	400kv Interconnector (423-52) between CCGT Bawana-DTL Bawana.	At CCGT Bawana. : Differential protection.	17:37	20:45	
6	400kv CB 426-52 (main CB of ICT-6) at Bawana.	At Bawana: Without Indication	17:35	20:56	DTL
7	220kV Wazirabad – Geeta Colony-I	At Wazirabad :Dist Prot.,Z-I At Geeta Colony: No tripping	17:46	18:18	DTL
8	220kV Wazirabad – Geeta Colony-II	At Wazirabad : Dist 00KM ,Z-I, L2-N At Geeta Colony: Dist Prot., Z-2, 5.47KM, O/C, E/F, 86	17:46	22:12	DTL
9	220kV Bawana – DSIDC Ckt-I	At Bawana : BG-1,Dist Prot Zone-I, Dist. 0.37Kms At DSIDC : Auto Reclose lock out., Dist Prot Zone-I	16.57	19.30	
10	400kV Mandola – Bawana Ckt-I	At Mandola : 17kA, fault current reported. At Bawana : L-3, Dist Prot Zone-I, Dist 18.46Kms	17.21	21.50	

**Generation Loss during disturbance:**

Name of Stn.	Unit No.	Generation prior to the incident in MW	Time in Hrs.		Remarks
			Tripping	Restoration	
CCG.T. Stn.	STG	92	17:37	23:15	Unit-II was available on OCNG.
<b>Total (MW)</b>		<b>92</b>			

**Details of load affected during the incident :-**

Time in Hrs.		Duration of load shedding	Load affected in MW	Name of the S/Stn affected
From	To			
17:48	17:55	00:07	16	KAMLA MARKET
17:48	17:55	00:07	7	I.G. STADIUM,IP ESTATE
17:48	17:55	00:07	6	DEEN DYAL UPADHAYA MARG
17:48	17:56	00:08	16	KANTI NAGAR
17:48	17:55	00:07	8	G.B. PANT
17:48	17:55	00:07	2	DELHI GATE,IP ESTATE

Time in Hrs.		Duration of load shedding	Load affected in MW	Name of the S/Stn affected
From	To			
17:48	17:55	00:07	5	LAHORI GATE
17:48	17:55	00:07	6	MINTO ROAD
17:48	17:57	00:09	17	GEETA COLONY
17:48	17:57	00:09	17	KAILASH NAGAR
18:03	18:18	00:15	20	KAILASH NAGAR
18:03	18:18	00:15	20	GEETA COLONY
18:03	18:18	00:15	16	KANTI NAGAR
17:48	17:58	00:10	17	KILOKRI
17:48	17:56	00:08	12	NIZAMUDDIN
17:48	17:56	00:08	13	DEFENCE COLONY
17:48	17:56	00:08	10	LAJPAT NAGAR
17:48	17:56	00:08	1	EXHIBITION GROUND -I

#### **Preliminary report on trippings occurred in Delhi system on 26.03.2016.**

The following tripping occurred in Delhi system on 26.03.2016 at 15:54 hrs. onwards

S. No	Name of the elements tripped	Relay indications	Time of tripping in Hrs.	Time of Restoration in Hrs.	Remarks
1	Mandola- South of Wazirabad ckt II	At Mandola R and Y phase distance 12 KM At Wazirabad.RYB phase zone I, start RY phase distance 0.983 KM	15.54	19.56	
2	Mandola- South of Wazirabad ckt IV	At Mandola BN phase distance 15 KM At Wazirabad CN phase zone I, start BN phase distance 1.117 KM	15.54	17.59	
3	Mandola- South of Wazirabad ckt I	At Mandola made off manually due to overloading At Wazirabad put off manually	15.57	20.51	
4	Mandola- South of Wazirabad ckt III	Ckt. was under shut-down for OPGW work since 08.31 hrs	08:31 under S/D	18.49	

#### **System configuration during the incident**

Prior to the incident, GT Station was connected to Grid through 220kV IP Ext (Pragati) -IP -Patparganj - Geeta Colony – Wazirabad - Mandola Ckts. Due to outage of all the four ckts between Wazirabad –Mandola,GT got islanded from the Grid and subsequently collapsed. 220 KV supply to GT was extended through Gopalpur-Wazirabad-Geeta colony-Paparganj-IP ckts.

#### **Generation loss**

Sr No	Name of Unit	Generation	Tripping time	Synchronising time
1	GT I	Generation 27 MW	15.59 hrs	16.38 hrs
2	STG of GT I	Generation 10 MW	15.59 hrs	17.36 hrs

Detail of load shedding :-

Time (Hrs)		Load affected in MW	Name of the Grid
From	To		
<b>BRPL</b>			
16:14	16:23	19	DEFENCE CLY
16:14	16:23	1	EXB-1
16:14	16:23	1	EXB-2
<b>BYPL</b>			
15:55	16:19	10	GHONDA
15:55	17:21	5	SHASTRI PARK
15:55	16:31	10	DWARKAPURI
15:55	17:03	17	SEELAMPUR
15:55	16:19	6	KARAWAL NAGAR
15:55	16:19	5	GT ROAD
15:55	16:29	11	KANTI NAGAR
15:55	18:52	15	KAILASH NAGAR
15:55	16:53	17	GEETA COLONY
15:55	18:53	17	WAZIRABAD
15:55	17:03	10	YAMUNA VIHAR
15:55	15:58	5	I.G STADIUM
15:55	15:58	8	LAHORI GATE
15:55	16:08	7	G.B PANT
15:55	16:01	13	TOWN HALL
15:55	16:04	5	FOUNTAIN
15:55	16:13	13	JAMA MASJID
15:55	16:01	5	MINTO ROAD
15:55	15:58	7	DELHI GATE
17:02	17:58	21	KARAWAL NAGAR
17:58	18:53	14	BHAGIRATHI
17:58	18:53	11	EAST OF LONI ROAD

#### Preliminary report on trippings occurred in Delhi system on 30.03.2016.

The following tripping occurred in Delhi system on 30.03.2016 at 13.51hrs.

S. No	Name of the elements tripped	Relay indications	Time of tripping in Hrs.	Time of Restoration in Hrs.	Remarks
1	220kV Mandola – Gopalpur Ckt. I	At Mandola : 85LO, 86B, 86BUX, AA At Gopalpur : Supply failed	13.51	15.52	500MVA ICT-I tripped at Mandola causing tripping of 220kV Gopalpur Ckt. I&II from Mandola
2	220kV Mandola – Gopalpur Ckt. II	At Mandola : 85LO, 86B, 86BUX, AA At Gopalpur : Supply failed	13.51	15.52	
3	220kV Wazirabad – Geeta Colony Ckt. – II	At Wazirabad : general trip RYB Phase, distance 3.6Kms. At Geeta Colony : Dist prot. Zone-I, distance 3.657Km. 86	13.51	14.18	220kV Wazirabad-Geeta Colony Ckt. –I was under shutdown for tightening of jumpers.

### **System configuration during the incident**

Prior to the incident, GT Station (Unit 2 & STG-1) was connected to Mandola side through 220kV IP Ext (Pragati) -IP - Patparganj - Geeta Colony –Wazirabad - Mandola Ckts. Due to tripping of 220kV Wazirabad-Geeta Colony Ckt. -II at Wazirabad and Geeta Colony caused islanding of G.T.Stn from the Grid and subsequently collapsed. 220kV Wazirabad-Geeta Colony Ckt. -I was under shutdown for tightening of jumpers.

#### **Generation Loss due to disturbance :**

Name of Stn.	Unit No.	Generation prior to the incident in MW	Time		Remarks
			Tripping	Restoration	
GT Stn.	Unit-2	23	13.51	15.19	
	STG-1	10	13.51	17.41	
<b>Total (MW)</b>		<b>33</b>			

#### **Load Generation Balance prior to incidence :**

Name of Stn.	Unit No.	Generation prior to the incident in MW	Connected load prior to incident in MW
G.T.Stn.	#2	23	91
STG	STG-1	10	--
Patparganj	--	--	29
Geeta Colony	--	--	54
I.P.Stn.	--	--	84
RPH	--	--	32
<b>Total</b>		<b>33</b>	<b>290</b>

#### **Details of Under frequency relay operation :-**

Name of the Grid	Time		Load in MW	Remarks
	From	To		
<b>220kV Geeta Colony</b>				
33kV Geeta Colony Ckt. I & II	13.51	14.17	17	
33kV Kanti Nagar Ckt. I & II	13.51	14.17	18	
33kV Kailash Nagar Ckt. I & II	13.51	14.17	19	
33kV Shakarpur Ckt.	13.51	14.17	No load	
<b>220kV Rajghat</b>				
33kV Bay no. 1 (RPH- Motia Khan)	13.51	14.23	No load	
33kV Bay no. 2 (RPH- Lahori Gate)	13.51	14.23	7	
33kV Bay no. 5 (RPH- Jama Masjid-I)	13.51	14.23	No load	
33kV Bay no. 13 (RPH-G.B.Pant)	13.51	14.23	10	
33kV Bay no. 18 (RPH- Town Hall)	13.51	14.23	No load	
<b>220kV I.P.Stn.</b>				
33kV Bay no. 7 (I.P. – Exhb. Ground)	13.51	14.45	1	
33kV Bay no. 9 (I.P. – Exhb. Ground)	13.51	14.45	No load	
33kV Bay no. 24 (I.P. – JLN Stadium)	13.51	14.45	11	
<b>Total MW</b>			<b>83</b>	