



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

2017-18

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 2017-18	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	16-32
9	Power Supply position of Delhi	33-87
10	Frequency spectrum	88
11	Details of Under Frequency Relay Trippings	88
12	Interstate Transmission Losses	89-94
13	Allocation of power to Distribution Licensees	95-98
14	Inter Discom Transfer of Power	99-103
15	Implementation of Intra State ABT in Delhi	104-114
16	Capacitor Requirement in Delhi	115-126
17	Availability of Delhi Transco's Transmission System	127
18	New Elements commissioned in Transmission network during 2017-18	128-130
19	Trippings / Break-downs in 400/220kV System.	131-168
20	Major Grid Disturbances occurred in 2017-18	169-192

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 / GENERATING COMPANIES OPERATING IN DELHI

1 STATE TRANSMISSION UTILITY

DELHI TRANSCO LTD.(DTL) : TRANSMISSION LICENSEE
(STU, DELHI)

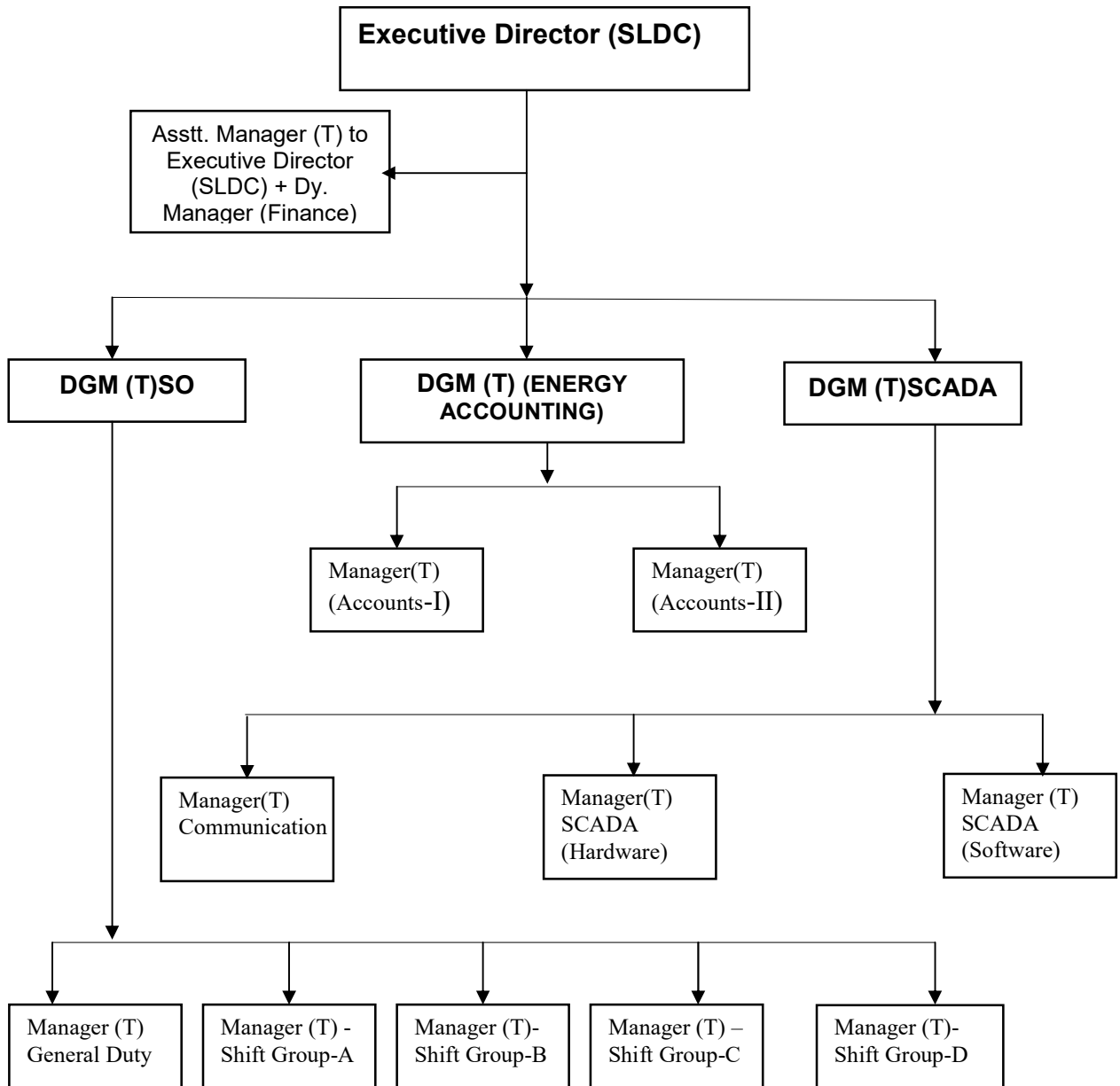
2 DISTRIBUTION LICENSEE

- i) BSES RAJDHANI POWER LTD (BRPL) : DISTRIBUTION LICENSEE
- ii) BSES YAMUNA POWER LTD. (BYPL) : DISTRIBUTION LICENSEE
- iii) TATA POWER DELHI DISTRIBUTION LTD. : DISTRIBUTION LICENSEE
(TPDDL)
- iv) NEW DELHI MUNICIPAL COUNCIL (NDMC) : DEEMED DISTRIBUTION
(NDMC) LICENSEE
- v) MILITARY ENGINEERING SERVICE : DEEMED DISTRIBUTION
(MES) LICENSEE
- vi) NORTHERN RAILWAYS : DEEMED LICENSEE

3 GENERATING UTILITIES

- i) INDRAPRASTHA POWER GENERATING COMPANY LTD. (IPGCL)
- ii) PRAGATI POWER CORPORATION LTD (PPCL)
- iii) EAST DELHI WASTE PROCESSING COMPANY LTD (EDWPCL)
(Waste to Energy Plant)
- iv) TIMARPUR OKHLA WASTE MANAGEMENT COMPANY LTD. (TOWMCL)
(Waste to Energy plant)
- v) DELHI MUNICIPAL SOLID WASTE PROCESSING COMPANY LTD (DMSWPCL)
(Waste to Energy plant)

3 ORGANISATIONAL SETUP OF SLDC DEPARTMENT



4 Functions of various circles of SLDC

- i) System Operation
- ii) Energy Accounting
- iii) SCADA and Communication

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 Energy Accounting

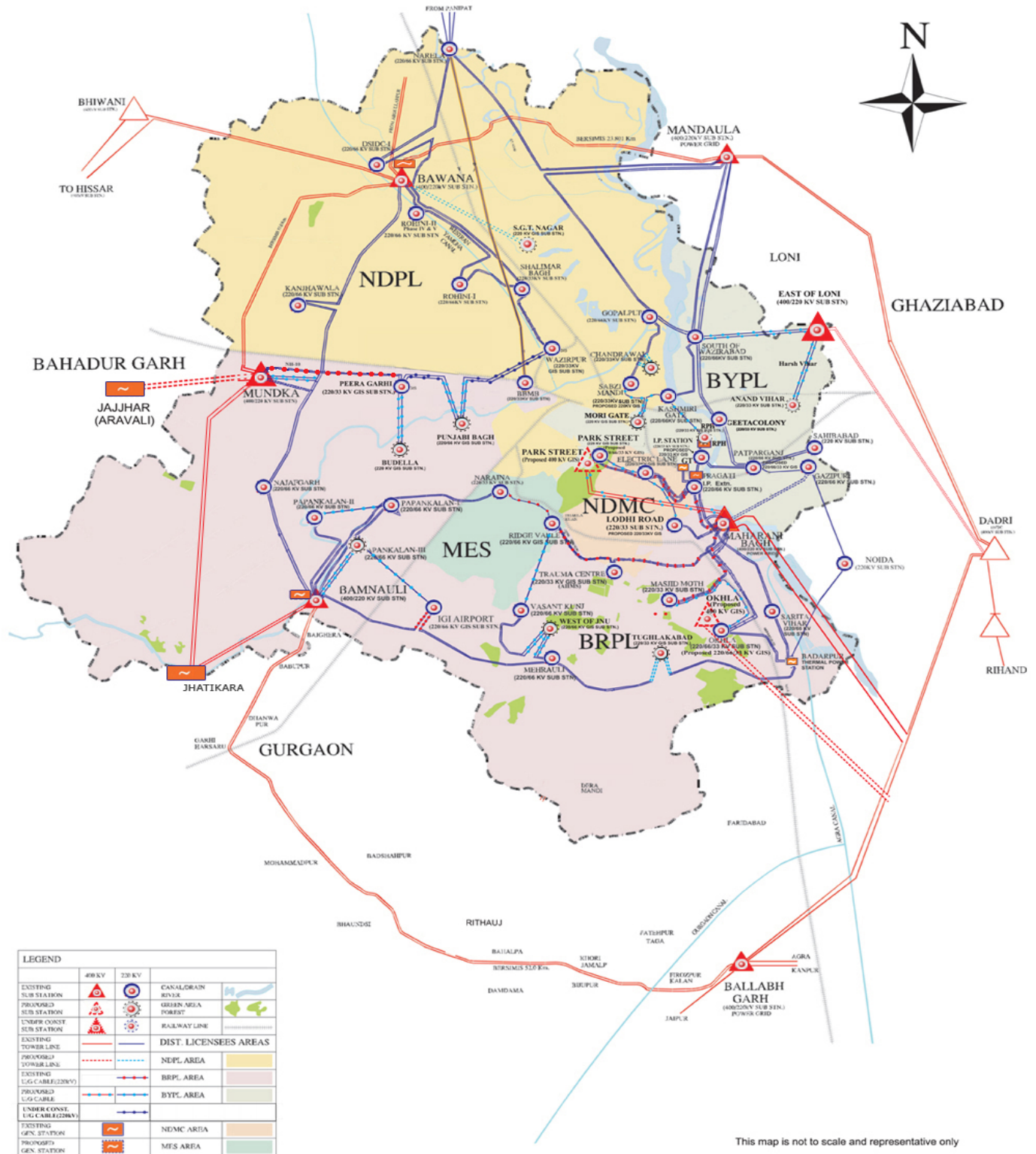
The circle is to undertake the accounting of the quantity of electricity transmitted through the state grid as envisaged in the Electricity Act. This includes the preparation of State Energy Accounts indicating Availability, Scheduled Generation, Plant Load Factor computation, Open Cycle Operation of Gas Turbines etc. in respect of Generating Stations within Delhi. It has also to prepare and issue weekly Deviation Settlement Mechanism (DSM) Accounts for Intrastate utilities.

4.3 Supervisory Control and Data Acquisition (SCADA) and Communication

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 monitoring and control 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 and Microwave 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 software sub divisions. The software sub division of SCADA has developed in-house softwares for various activities.

4.4 Network Map of Delhi Power System



5 MAJOR ACTIVITIES OF SLDC DURING 2017-18

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 Gazette 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 FY 2017-18. The details of various decisions taken in the meeting are as under :-

S. No.	Date of meeting	Discussions and Decision on the issue(s)
1	26.04.2017	<p>17th GCC meeting held on 26.04.2017. The following decisions were taken in the meeting :</p> <ol style="list-style-type: none"> 1) GCC reviewed the position of Hot Reserve Transformers. 2) GCC reviewed the status of implementation of ADMS and advised all utilities to adhere to the Grid Discipline and ensure the compliance of the Indian Electricity Grid Code 3)GCC discussed the issue of outstanding dues owed by some of distribution licensees to DTL, IPGCL / PPCL and advised the concerned utilities to clear the dues. 4)GCC reviewed the status of implementation of recommendations of Inquiry Committee constituted on the Grid Disturbances occurred on 30/31.07.2012. 5)GCC discussed on the anticipated power supply position for Summer 2017 and advised all the Distribution Licensees to make adequate arrangement to meet the peak demand. 6)GCC reviewed the various system improvement works being carried out by Transmission and Distribution Licensees for ensuring reliable power supply in Delhi. 7) GCC discussed various other operation and commercial issues and advised accordingly.
2	22.09.2017	<p>18th GCC meeting held on 22.09.2017. The following decisions were taken in the meeting :</p> <ol style="list-style-type: none"> 1) GCC reviewed the position of Hot Reserve Transformers. GCC advised DTL to finalize the policy for hot reserve transformers in Steering Committee meeting. 2) GCC reviewed the status of implementation of ADMS and advised all utilities to adhere to the Grid Discipline and ensure the compliance of the Indian Electricity Grid Code. It was also decided to hold a meeting of all Discoms after completion of the ADMS. 3)GCC discussed the issue of outstanding dues owed by some of distribution licensees to DTL, IPGCL /PPCL and advised the concerned utilities to clear the dues. It also advised BYPL to make effort to lift the regulations of power Aravali Jhajjar and SJVN. 4)GCC reviewed the status of implementation of recommendations of Inquiry Committee constituted on the Grid Disturbances occurred on 30/31.07.2012.. 5)GCC discussed on the anticipated power supply position of Winter 2017-18 and advised all the Distribution Licensees to make efforts for desposing off surplus power available with them. GCC also discussed the problem of high voltage in the night nights and suggested the remedial measures. 6)GCC reviewed the various system improvement works being carried out by Transmission and Distribution Licensees for

S. No.	Date of meeting	Discussions and Decision on the issue(s)
		ensuring reliable power supply in Delhi. 7) GCC discussed various other operation and commercial issues and advised accordingly.

Apart from the above, various other meetings were held in Delhi to discuss and decide various issues as under :-

S. No.	Date of meeting	Discussions and Decision on the issue(s)
1	03.07.2017	A meeting was held to discuss issuance of various energy accounts issued by Delhi SLDC
2	28.04.2017	A meeting was held for payment of NRLDC Charges directly by Discoms to NRLDC.
3	11.05.2017	A meeting was held for resolution of various issues relating to Intra State Open Access in Delhi.
4	08.06.2017	A meeting was held to discuss on 4 th Amendment of Indian Electricity Grid Code, PoC Charges and proforma for Merit Order Despatch.
5	19.12.2017	A meeting was held for resolution of issues of Intrastate Open Access of M/S Max and M/s TOWMCL.

6 SALIENT FEATURES OF DELHI POWER SYSTEM

Sr. No.	Features	2016-17	2017-18
1	Effective Generation Capacity within Delhi in MW		
	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
	Delhi Municipal Solid Waste Management Ltd.	24	24
	East Delhi Waste Processing Company Ltd.	10	10
	Total	2955	2955
2	Maximum Unrestricted Demand (MW)	6342	6553
	Date	01.07.16	06.06.17
	Time	15:10:35	15:31:37
3	Peak Demand met (MW)	6261	6526
	Date	01.07.16	06.06.17
	Time	15:10:35	15:31:37
4	Availability (MW)	6080	6651
5	Shortage (-) / Surplus (+) in MW	(-)181	(+)125
6	Percentage Shortage (-) / Surplus (+)	(-)2.89	(+)1.92
7	Maximum Energy Consumption in a day (Mus)	130.580	136.816
8	Energy Consumed during the year	30790	31875
9	Load Shedding in Mus		
A)	Due to Grid Restrictions		
i)	Under Frequency Relay Operations	0.740	0.024
ii)	Load Shedding by		
	TPDDL	0.773	0.271
	BRPL	4.597	0.690
	BYPL	0.388	0.151
	NDMC	0.000	0.000
	MES	0.000	0.000
iii)	Due to Transmission Constraints in Central Sector System	0.164	0.000
	Total due to Grid Restriction	6.662	1.136
B)	Due to Constraints in System		
	DTL	9.801	6.107
	TPDDL	2.225	0.978
	BRPL	9.574	9.433
	BYPL	1.384	1.276
	NDMC	0.041	0.000
	MES	0.000	0.000
	Other Agencies	1.814	0.538
	Total	24.839	18.332
11	Total Load Shedding in MUs	31.501	19.469
12	Load shedding in percentage of Energy Consumption	0.102	0.061

7. PERFORMANCE OF GENERATING STATIONS WITHIN DELHI DURING YEAR 2017-18

Sr. No	Power Station	Effective Capacity (MW)	Gross Generation in MUs	Ex-bus Generation In MUs	Plant Availability Factor in %age
1	Rithala CCTG	94.2	0.000	0.000	--
2	Rajghat TPS	135	0.000	0.000	--
3	Gas Turbine	270	580.497	559.069	83.07
4	Pragati Stage-I	330	1955.337	1911.306	92.64
5	BTPS	705	1557	1394.659	36.64
6	Bawana CCGT	1371	2957.455	2846.552	74.11
7	Timarpur Okhla Waste Management Ltd.	16	163.049	139.090	--
9	Delhi Municipal Solid Waste Management Ltd	24	109.529	87.319	--
10	East Delhi Waste Processing Company Ltd.	12	23.583	12.659	--
	Total	2957.2	7346.45	6950.654	

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

The PAFM of BTPS and RPH w.e.f. 01.01.2016 has been calculated as per directions of Delhi Pollution Control Committee (DPCC) issued vide letters dated 31.12.2015, 02.02.2016, 21.03.2016 and 15.03.2017 subject to finalization at the end of financial year.

8. DETAILS OF OUTAGES OF GENERATING STATIONS WITHIN DELHI FOR 2017-18

RPH

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	67.5	08.05.15	13.40	--	--	Tripped on boiler tube leakage. However, DPPC has also not allowed the operation of unit due to non meeting pollution norms.
2	67.5	21.05.15	10.20	--	--	DPPC has not allowed the operation of unit due to failure to meet pollution norms.

(B) Gas Turbine

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	30	30.4.17	07:00	30.4.17	19:15	Machine stopped to attend Lealage of Cooling water from CW return line.
		30.4.17	19:15	2.5.17	12:02	After attending the cooling water leakage machine could not be taken on bar due no schedule.
		2.5.17	23:35	24.5.17	06:57	Unit stopped due to no schedule from SLDC on CC N
		4.6.17	15:47	4.6.17	17:16	Unit tripped with following alarm GAC Electrical protection Trouable , Electrical Trouable Normal shut down and Generator Excitation field failure alarm. Processor of DVR found faulty and same was replaced
		7.6.17	09:45	14.6.17	12:51	Unit could not be taken on bar due to no schedule from SLDC on CC NG
		20.6.17	17:26	20.6.17	23:59	Unit tripped on Electrical Trouble Normal shut down and generator electrical protection. The following alarm also appeared on protection panel. Relay P141B operated, Rotor or stator earth fault and 11 KV Bkr gas pressure low.
		23.6.17	23:02	24.6.17	14:05	Unit tripped due to Low SF-6 Gas Pressure in 11 KV Breaker.
		24.6.17	14:40	26.6.17	19:40	Unit could not be taken on bar due to no schedule from SLDC on CC NG
		2.7.17	09:47	3.7.17	17:14	Unit stopped due to low demand.
		13.7.17	18:16	18.7.17	20:22	
		22.7.17	12:16	11.8.17	15:37	
		11.8.17	18:24	11.8.17	21:25	Unit stopped due to fire observed in load gear box.
		12.8.17	00:05	7.9.17	12:00	Unit stopped due to low demand.
		18.9.17	07:55	18.9.17	18:11	
		22.9.17	11:50	22.9.17	14:30	Unit tripped on TAD High(155 mm WC)
		22.9.17	14:30	23.9.17	08:15	Unit stopped due to low demand.
		23.9.17	08:15	23.9.17	12:15	Unit not available due to problem in NRV of ACW line.
		23.9.17	12:15	28.9.17	14:58	Unit stopped due to low demand
		4.10.17	14:17	4.10.17	16:45	Unit tripped on LTTH high. There was a problem in cooling water circuit as the LTTH of other machines were also running High.The self cleaning filter of ACW system cleaned circulating water sytem got normalized.
		4.10.17	16:45	6.10.17	10:15	Unit stopped due to low demand.
7.10.17	12:32	8.10.17	12:12			
10.10.17	06:10	10.10.17	09:30			
10.10.17	16:00	12.10.17	08:42			
15.10.17	00:03	17.10.17	09:02			
18.10.17	15:15	28.10.17	09:47			

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	30	30.10.17	05:00	30.10.17	08:00	Unit stopped on TAD High.
		30.10.17	08:00	4.11.17	10:25	Unit stopped due to low demand.
		18.11.17	20:05	2.12.17	11:00	Unit stopped to changeover to GT-5.
		2.12.17	11:06	2.12.17	13:25	Unit again started on trial run after clearance from Mech. Mtc.
		2.12.17	13:34	1.1.18	12:40	Stopped due to low demand.
		1.1.18	12:44	5.1.18	10:43	
		8.1.18	19:32	17.1.18	10:05	
		22.1.18	15:01	25.1.18	06:58	
		25.1.18	22:30	29.1.18	06:40	
		30.1.18	15:46	02.02.18	06:50	
		3.2.18	00:57	12.2.18	07:23	
		14.2.18	08:50	14.2.18	09:10	Heavy jerk observed in control room as both 160 MVA Tr-I & II tripped at 220 KV side. GT#1 tripped due to grid disturbance.
		14.2.18	15:10	14.2.18	16:17	As per request from SLDC machine put on FSNL to change the 160 MVA Tr-II by 160 Mva Tr-I.
		15.2.18	11:56	23.03.18	16:52	Unit stopped due to low demand.
		23.3.18	20:50	26.3.18	11:59	Unit tripped on overtemperature trip alarm
30.3.18	20:15	31.3.18	23:59	Unit stopped due to low SF6 gas pressure in the breaker.		
2	30	4.4.17	00:04	20.4.17	16:50	Unit stopped due to low demand.
		30.4.17	07:00	30.4.17	19:15	Shut-down of unit to attend Lealakege of cooling water from CW return line.
		30.4.17	19:15	24.5.17	10:20	After attending the cooling water leakage machine could not be taken on bar due to less demand.
		29.5.17	06:12	29.5.17	09:45	Unit tripped while rebooting the Mark-IV system as the machine was operating while R&S controller was inoperative.
		29.5.17	09:45	02.06.17	09:15	Unit cleared from C&I side but not synchronized due to low demand.
		2.6.17	09:15	2.6.17	20:13	Unit could not be taken on bar as mark-IV system was found hanged. Card "HCMA" in <C> communicator and "HXPD" in <R> Controller was found faulty. These cards were replaced. After executing start command Machine came in temperature control mode and speed of machine did not increase after 2850 RPM.
		7.6.17	09:45	13.6.17	14:12	Unit could not be taken on bar due to less demand.
		13.6.17	14:26	14.6.17	12:27	Unit taken on bar for testing.
		2.7.17	09:47	3.7.17	17:52	Unit stopped due to low demand.
		8.7.17	15:25	9.7.17	16:34	Due to loss of field on alarm Electrical trouble shut-down.
		10.7.17	10:26	10.7.17	16:45	Due to loss of field on alarm Electrical trouble shut-down.
		11.7.17	09:57	11.7.17	17:04	Unit tripped on Electrical Trouble Normal Shut Down and loss of field alarm on protection panel.
		11.7.17	17:10	13.7.17	10:43	Unit stopped due to low demand.
		13.7.17	12:35	14.7.17	13:50	Unit tripped on Electrical Trouble Normal Shut Down and loss of field alarm on protection panel.
		14.7.17	13:55	18.7.17	18:29	Unit stopped due to low demand.
		18.7.17	20:45	20.7.17	17:50	
		22.7.17	18:59	10.8.17	15:38	
12.8.17	00:07	7.9.17	14:38			
18.9.17	07:50	18.9.17	17:46			

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
2	30	23.9.17	08:15	23.9.17	12:15	Unit stopped to attend NRV in return line ACW line.
		23.9.17	12:15	25.9.17	12:49	Unit stopped due to low demand.
		25.9.17	16:10	28.9.17	14:38	
		4.10.17	15:45	6.10.17	09:52	
		7.10.17	12:32	7.10.17	14:24	
		1.11.17	13:32	8.11.17	10:00	
		18.11.17	19:58	9.12.17	19:33	Unit stopped for changeover to GT-6.
		1.12.17	00:00	9.12.17	19:33	Unit stopped due to low demand.
		9.12.17	23:59	10.12.17	11:40	
		10.12.17	14:30	30.12.17	11:50	
		30.12.17	11:55	5.1.18	09:58	
		8.1.18	19:32	22.1.18	13:56	Unit came on FSNL due to grid disturbance.
		4.2.18	08:26	4.2.18	08:40	
		14.2.18	08:50	14.2.18	11:40	Both 160 MVA Tr-I & II tripped from 220kV side. Unit tripped due to grid disturbance.
		14.2.18	15:10	14.2.18	15:15	To change the 160 MVA Tr-II by 160 MVA Tr-I.
		15.2.18	12:46	25.03.18	18:10	Unit stopped due to low demand
		26.3.18	10:58	26.3.18	13:40	Unit stopped due to loss of field and electrical trouble.
26.3.18	13:40	30.3.18	19:20	Unit stopped due to low demand.		
3	30	4.4.17	23:58	30.4.17	07:00	Unit stopped due to low demand.
		30.4.17	07:00	30.4.17	19:15	Unit was not available due to non availability of cooling water as there was leakage from CW return line for which plant shut down was availed.
		30.4.17	19:15	29.7.17	14:53	Unit could not be taken on load due to no schedule.
		29.7.17	15:04	04.8.17	17:10	Unit stopped after taking trial test as there was less schedule.
		4.8.17	22:32	5.8.17	16:42	Unit stopped due to low demand.
		6.8.17	02:15	7.9.17	11:32	
		7.9.17	15:35	14.9.17	05:36	
		16.9.17	13:22	19.9.17	11:17	
		21.9.17	14:08	21.9.17	16:27	Unit tripped, No alarm appeared but fuel failure alarm came on protection pannel. The Cooling water for Turbine oil cleaning was very dirty and this water was drained after that fresh DM water taken into tank and Machine synchronised.
		22.9.17	12:30	22.9.17	14:30	Unit tripped on TAD High
		22.9.17	14:30	23.9.17	08:15	Unit stopped due to low demand.
		23.9.17	08:15	23.9.17	12:11	Unit not available due to problem in NRV of ACW line.
		28.9.17	01:00	29.9.17	08:26	Unit stopped due to low demand
		29.9.17	09:04	4.10.17	09:50	Unit stopped as GT-5 was taken on load as per requirement of load.
		7.10.17	01:00	8.10.17	08:20	Unit stopped due to low demand.
		8.10.17	16:30	9.10.17	12:30	
		9.10.17	20:00	14.10.17	12:25	
15.10.17	00:06	17.10.17	09:40			
17.10.17	19:01	1.11.17	05:10			

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
3	30	1.11.17	13:35	8.11.17	10:06	Unit stopped due to low demand.
		9.11.17	00:22	9.11.17	09:00	Unit tripped on high TAD.
		9.11.17	09:00	9.12.17	20:31	Unit cleared from maintenance side but not taken on load due to low schedule on CCNG.
		9.12.17	23:50	16.12.17	11:46	Unit stopped due to low demand
		22.12.17	11:40	22.12.17	12:22	Unit tripped on high LTTH.
		13.1.18	14:30	13.1.18	16:56	Unit tripped on manual trip alarm.
		15.1.18	14:56	15.1.18	18:04	Unit stopped to change inlet air filter as TAD is High
		17.1.18	08:15	17.1.18	12:30	Unit tripped on high TAD due to sudden heavy fog.
		17.1.18	12:32	25.1.18	07:42	Unit stopped due to low demand.
25.1.18	22:49	31.3.18	23:59			
4	30	4.4.17	23:58	30.4.17	07:00	Unit stopped due to low demand.
		30.4.17	07:00	30.4.17	19:15	Unit not available due to non availability of cooling water as there was leakage from CW return line for which plant shut down was taken.
		30.4.17	19:15	02.06.17	12:25	Unit stopped due to low demand.
		2.6.17	12:30	5.6.17	13:30	Unit stopped due to low demand.
		5.6.17	13:30	5.6.17	15:50	After giving start command to machine it came on FSNL. In due time, while trying to synchronise, its 11kV breaker did not taking close command inspite all permissive healthy. After checking DVR and Mark-Vie system it was found that closing permissive from protection panel was not available. The problem rectified by Protection department and same was synchronised with Grid.
		6.6.17	22:13	14.9.17	09:28	Unit stopped due to low schedule.
		17.9.17	15:30	19.9.17	12:43	Unit tripped due to Y Phase Bus Conductor got snapped.
		20.9.17	00:05	23.9.17	08:15	Unit stopped due to low demand.
		23.9.17	08:15	23.9.17	12:15	Unit not available due to problem in NRV of ACW line.
		23.9.17	12:15	25.9.17	15:38	Unit stopped due to low demand.
		27.9.17	17:31	27.9.17	19:40	Unit tripped on Electrical Trouble Normal Shut down.
		27.9.17	19:45	13.10.17	11:20	Unit stopped due to low demand.
		4.10.17	22:48	5.10.17	01:28	Unit tripped due to communication failed with any IO pack. Loss of flame Tripp alarm appeared.
		5.10.17	01:40	5.10.17	10:48	Unit stopped due to low demand.
		7.10.17	01:00	8.10.17	12:00	
		8.10.17	12:00	8.10.17	18:30	Unit tripped due to problem in field breaker.
		8.10.17	18:35	9.10.17	13:18	Machine cleared from maintenance side but not taken on load due low demand.
		9.10.17	20:00	14.10.17	12:28	Unit stopped due to low demand.
		14.10.17	17:20	17.10.17	10:13	
		17.10.17	11:01	17.10.17	13:13	Unit tripped due to communication failed with any IO pack.
		17.10.17	19:01	31.10.17	23:59	Unit stopped due to low demand.
		1.11.17	00:00	9.11.17	02:04	
		9.11.17	02:23	10.12.17	16:15	
10.12.17	17:01	28.12.17	13:00	Unit run on trial for cheking the readiness of machine.		

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
4	30	28.12.17	13:05	5.1.18	10:22	Unit stopped due to low demand.
		6.1.18	17:15	13.1.18	15:20	Unit stopped due to low demand.
		13.1.18	17:45	15.1.18	13:42	Unit started to change filter of GT-3 as TAD was High
		15.1.18	18:40	17.1.18	08:45	Unit stopped due to low demand.
		17.1.18	10:25	31.03.18	23:59	
5	30	4.4.17	00:00	25.4.17	18:57	Unit under shut-down for Hot Gas Path Inspection & Generator O/h since 25/03/2017
		25.4.17	19:57	30.4.17	07:00	Unit cleared after synchronizing and running for one hour on 10 MW, 20MW and 30 MW
		30.4.17	07:00	30.4.17	19:15	Unit was not available due to non availability of cooling water as there was leakage from CW return line for which plant shut down was taken.
		30.4.17	19:15	1.5.17	07:22	Unit could not taken on load due to low demand
		16.5.17	12:40	16.5.17	13:46	Unit tripped on loss of Excitation alongwith Electrical trouable normal shut down alarm on protection panel.
		24.5.17	11:25	05.06.17	17:50	Unit stopped due to low demand.
		16.6.17	03:46	13.07.17	13:21	Unit stopped due to low demand.
		13.7.17	14:41	13.7.17	17:15	Unit tripped on Exhaust over temperature trip alarm.
		14.7.17	18:57	15.7.17	12:25	Unit tripped on electrical normal shutdown.UAT E/F operated, differential trip, dirrerential R, Differential Y and Overall differential operated
		15.7.17	12:51	15.7.17	16:39	Unit stopped after taking trial and low demand.
		15.7.17	17:22	18.7.17	11:08	Unit stopped due to low demand.
		18.7.17	18:50	20.7.17	11:06	Unit stopped due to leakage of water from Warren Pump and less load on machine.
		20.7.17	13:37	22.7.17	18:45	Unit stopped after taking trial and no schedule from discoms.
		28.7.17	10:42	29.7.17	15:25	Unit tripped on overspeed bolt trip alarm.Over speed bolt trip alarm reset and not taken on bar due to no schedule from discoms.
		29.7.17	15:34	02.08.17	11:40	Unit stopped after taking trial and no schedule from discom
		5.8.17	20:08	11.8.17	13:45	Unit stopped due to low demand.
		22.8.17	18:00	22.8.17	21:03	Unit stopped due to gas pressure low in 11 KV breaker
		26.8.17	12:00	26.8.17	19:50	Unit stopped due to low demand.
		30.8.17	18:33	30.8.17	21:30	Unit stopped due to SF6 Gas pressure low alarm in 11 KV breakers.
		30.8.17	21:30	5.9.17	09:30	Unit stopped due to low demand.
		7.9.17	10:05	7.9.17	10:54	Unit desynchronise to change the relay which was damaged
		17.9.17	15:30	17.9.17	17:20	Unit tripped due to jerk in system.
		20.9.17	18:05	23.9.17	08:15	Unit stopped due to low demand.
		23.9.17	08:15	23.9.17	13:59	Unit not available due to problem in NRV of ACW line.
		25.9.17	16:49	29.9.17	09:00	Unit tripped due to lub oil temp high alarm. After that machine not taken on load due to low demand.
		29.9.17	21:12	29.9.17	22:12	Machine tripped on Exhaust temp v.High
		29.9.17	22:52	2.10.17	12:30	Unit stopped due to low demand.
2.10.17	14:00	3.10.17	22:48	Unit stopped due to low demand.		

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
5	30	4.10.17	02:42	4.10.17	12:42	Unit tripped on high exhaust over temperature.
		4.10.17	14:10	4.10.17	15:15	Unit tripped on LTTH high. There was a problem in cooling water circuit as the LTTH of other machines were also running High.The self cleaning filter of ACW system cleaned circulating water sytem got normalized.
		4.10.17	15:15	5.10.17	09:55	Unit cleared from maintenance side but not taken on load due low schedule from discoms.
		12.10.17	08:14	14.10.17	11:24	Unit tripped on high exhaust temperature.
		14.10.17	14:32	14.10.17	16:27	Unit tripped on high exhaust temperature.
		14.10.17	17:15	17.10.17	08:57	Unit stopped due to low demand.
		17.10.17	23:01	3.11.17	05:21	
		1.11.17	14:16	2.11.17	11:25	Unit changeover to GT-5.
		2.11.17	19:35	18.11.17	16:50	
		1.12.17	10:15	8.12.17	12:50	
		16.12.17	14:46	29.1.18	06:55	Unit stopped due to low demand
		30.1.18	15:50	02.02.18	07:20	Unit stopped due to low demand.
		03.02.18	01:03	15.2.18	11:54	
		21.2.18	13:41	21.2.18	13:51	
			1.3.18	17:20	1.3.18	18:00
	23.3.18	20:11	31.3.18	23:59	Unit stopped due to low demand.	
6	30	23.3.17	14:17	30.4.17	07:00	Unit stopped due to low schedule discoms.
		30.4.17	07:00	30.4.17	19:15	Unit was not available due to non availability of cooling water as there was leakage from CW return line for which plant shut down was taken.
		30.4.17	19:15	2.5.17	12:45	Unit could not taken on load due to less demand.
		2.5.17	12:45	2.5.17	22:25	Unit could not be taken on load due to early disengaging of Diesel Engine before 65% of Turbine full rpm.
		7.5.17	00:23	7.5.17	00:47	Unit taken on FSNL to change over from Bus bar-1 to 3
		22.5.17	15:00	06.06.17	21:21	Unit stopped due to less demand.
		16.6.17	03:49	13.07.17	15:20	Unit could not be taken on bar due to less demand.
		20.7.17	20:18	22.7.17	12:12	Unit stopped due to low demand.
		27.7.17	02:44	27.7.17	15:35	Communication failed with IO pack
		27.7.17	15:40	28.7.17	11:38	Unit stopped due to low demand.
		2.8.17	13:08	6.8.17	02:06	Unit stopped due to low demand.
		10.8.17	13:18	10.8.17	13:29	Unit came on FSNL due to grid disturbance.
		26.8.17	03:13	26.8.17	22:22	Unit stopped due to low demand.
		26.8.17	22:53	30.8.17	17:50	
		16.9.17	13:18	17.9.17	17:23	Unit tripped on TAD high.
22.9.17	10:08	22.9.17	18:00			
	22.9.17	18:00	23.9.17	08:15	Unit stopped due to low demand.	

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
6	30	23.9.17	08:15	23.9.17	12:15	Unit not available due to problem in NRV of ACW line.
		23.9.17	12:15	25.9.17	12:55	Unit stopped due to low demand.
		25.9.17	19:02	29.9.17	08:00	
		30.9.17	21:00	13.10.17	22:42	
		7.10.17	18:00	8.10.17	13:08	
		11.10.17	06:10	11.10.17	10:11	
		11.10.17	16:00	14.10.17	11:50	
		17.10.17	23:01	1.11.17	05:52	
		4.11.17	10:30	18.11.17	19:07	Unit changeover to GT-6.
		8.12.17	13:47	9.12.17	19:01	Unit stopped due to low demand.
		10.12.17	03:30	10.12.17	10:07	
		11.12.17	12:45	12.12.17	07:02	
		14.12.17	20:45	3.1.18	12:35	Unit stopped after taking scheduled trial of machine and there is no demand from SLDC.
		3.1.18	12:37	25.1.18	07:05	
		25.1.18	22:37	29.1.18	06:09	Unit stopped due to low demand
		30.1.18	15:52	2.2.18	07:25	Unit stopped due to low schedule from SLDC.
		2.2.18	21:00	9.3.18	07:44	
		23.3.18	19:52	26.3.18	14:00	Unit stopped due to changeover from mod-III to Mod -I.
26.3.18	14:00	31.3.18	23:59	Unit under Major Inspection and out of DC		
STG-1	30	30.4.17	07:00	30.4.17	19:15	Unit stopped to attend Lealakge of Cooling water from CW return line.
		30.4.17	19:15	2.5.17	15:56	Unit could not be taken on load due to less demand.
		2.5.17	23:35	24.5.17	09:40	Unit stopped due to low demand.
		7.6.17	09:45	14.6.17	16:58	
		2.7.17	09:47	3.7.17	17:14	Unit stopped due to low demand.
		8.7.17	15:25	8.7.17	17:07	Unit tripped as one of the running machine ,GT#2 tripped on loss of excitation.
		13.7.17	18:16	19.7.17	07:20	Unit stopped due to low demand.
		22.7.17	18:55	11.8.17	17:35	
		11.8.17	18:47	11.8.17	19:52	Unit tripped on drum level very high alarm due and drum level control valve of both ckt of HRSG# 2 not operative.
		12.8.17	00:07	16.8.17	12:45	Unit stopped due to low demand.
		16.8.17	12:45	28.8.17	18:30	STG-1 taken out of DC due to condenser cleaning
		28.8.17	18:30	7.9.17	16:14	Unit stopped due to low demand.
		18.9.17	07:10	18.9.17	22:17	Unit stopped due to heavy leakage of DM water from NRV of CPH O/L valve of HRSG#2.
		19.9.17	12:30	19.9.17	13:40	Unit tripped on high Exhaust steam Pr. High. Though all the parameters were normal all of sudden Exhaust steam pressure became high with in the span of 2-3 seconds.
		23.9.17	08:15	23.9.17	12:15	Unit stopped to attend NRV of ACW Return line.

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage		
		Date	Time	Date	Time			
STG-1	30	23.9.17	12:15	27.9.17	17:05	Unit stopped due to low demand.		
		4.10.17	14:17	4.10.17	16:45	Unit tripped alongwith tripping of GT#1 .		
		4.10.17	16:45	6.10.17	12:24	Unit cleared from maintenance side but not taken on load due less schedule.		
		7.10.17	05:30	7.10.17	08:16	Running BFP tripped on De-aerator level very low as this alarm appeared due to burning of control cable near super heater zone area of drum floor. Also Stand by BFP could not be taken as the start permissive not available.Hence Machine tripped manually.		
		7.10.17	12:32	8.10.17	07:00	Unit stopped to attend flue gas leakages at super heater zone area of boiler floor.		
		8.10.17	07:00	8.10.17	13:34	Unit cleared from maintenance side but not taken on load due to less schedule.		
		8.10.17	14:26	8.10.17	15:40	Unit tripped due to false alarm of turbine overspeed as all the parameters were running normal.		
		25.10.17	06:20	25.10.17	09:09	Unit tripped on failure of LT supply to Boiler and turbine MCC board due to tripping of 800 KVA Tx.I. Buchholtz relay of 800 KVA Tx-I operated. On further inspection it was found that the oil level indicator was showing the level of oil as above normal but in actual it was below low level.		
		28.10.17	08:10	28.10.17	08:32	Unit tripped on low vacume.		
		1.11.17	13:32	4.11.17	12:28	Unit stopped due to less demand.		
		5.11.17	22:57	5.11.17	23:29	Unit tripped on CH-1 & CH-II operated		
		8.11.17	16:02	8.11.17	17:45	Unit tripped due to malfunctioning of speed pick up.		
		18.11.17	18:47	09.12.17	21.51	Unit stopped due to changeover to STG-III.		
		9.12.17	23:59	10.12.17	13:30	Unit stopped due to low demand.		
		10.12.17	13:55	5.1.18	12.41			
				8.1.18	19:32	17.1.18	13:28	Unit stopped due to low demand.
				24.1.18	21:01	24.1.18	22:24	Unit tripped on reverse power operated. Class A trip relay operated
				4.2.18	08:26	4.2.18	11:15	Unit tripped due to grid disturbance
				14.2.18	08:50	14.2.18	13:25	Unit tripped due to grid disturbance.
				14.2.18	15:10	14.2.18	15:58	Unit tripped while change over of ICT-II by No 1 at 220 KV side.
		14.2.18	15:58	14.2.18	23:08	Unit tripped as soon as it synchronised with grid and checking in local relay 37G found damaged.		
		15.2.18	11:30	15.2.18	20:00	Unit tripped due to heavy leakage of water and steam from various locations.		
		15.2.18	20:00	23.3.18	18:47	Unit cleared from maintenance side but not taken on load due to less schedule.		
		26.3.18	10:58	26.3.18	13:25	Unit tripped manually due to tripping of GT-2 on Gen loss of field and electrical trouble.		
STG-2	30	1.4.17	11:39	1.4.17	19:25	Shut-down to attend hot spot on R-Phase Line Isolator.		
		4.4.17	00:00	30.4.17	07:00	Unit stopped due to low demand.		
		30.4.17	07:00	30.4.17	19:15	Unit was not available due to non availability of cooling water as there was leakage from CW return line for which plant shut down was taken.		
		30.4.17	19:15	05.06.17	23.02	Unit could not taken on load due to less schedule.		
		6.6.17	22:13	4.8.17	20.32	Unit stopped as there was no schedule on CC SPOT.		

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
STG-2	30	4.8.17	20:35	4.8.17	22:05	Grid disturbance and and unit tripped manually.
		4.8.17	22:20	5.8.17	18:50	Unit tripped due to heavy steam leakage from MS-114 valve.
		5.8.17	20:26	10.8.17	15:00	Unit tripped on multiple alram on BCD. Alram s like ESV closed and both boiler trip.
		10.8.17	15:00	26.8.17	03:00	After clearance from C&I, unit available but not taken on load due to less schedule.
		26.8.17	03:00	26.8.17	16:45	Unit under shut-down due to work in CW Inlet valve of STG#I.
		26.8.17	16:45	31.8.17	23:59	Unit is available but not brought on bar due to less schedule.
		14.9.17	16:07	14.9.17	17:34	Unit tripped due to Hot well Level very high. As The running CEP-2A left the load due to choking of suction stainer and stand by CEP-28 was under PTW.
		17.9.17	15:30	19.9.17	13:09	Unit tripped due to tripping of GT#4 as the machine was running on single GT.
		21.9.17	14:08	21.9.17	17:42	Unit tripped due to tripping of GT#3 as the machine was running on single GT.
		22.9.17	12:30	22.9.17	14:30	Unit tripped due to tripping of GT#3 as the machine was running on single GT.
		22.9.17	14:30	23.9.17	08:15	Unit stopped due to low demand.
		23.9.17	08:15	23.9.17	14:00	Unit not available due to problem in NRV of ACW line.
		28.9.17	01:00	4.10.17	11:45	Unit stopped due to low demand.
		7.10.17	01:00	7.10.17	18:15	Unit stopped due to less schedule.
		7.10.17	18:15	8.10.17	07:00	Unit was taken out from DC to attend leakage of cooling water at ACW inlet line of STG#III.
		8.10.17	07:00	8.10.17	12:00	Unit cleared from maintenance side but not taken on load due less schedule.
		8.10.17	16:30	9.10.17	14:48	Unit stopped due to low demand.
		9.10.17	20:00	14.10.17	15:00	
		15.10.17	00:06	17.10.17	11:14	
		17.10.17	19:01	1.11.17	07:52	
		1.11.17	13:35	8.11.17	11:58	
		9.11.17	00:22	9.11.17	09:00	Unit tripped due to tripping of GT#3 as machine running on single HRSG#3.
		9.11.17	09:00	16.12.17	13:42	Unit stopped due to low demand.
		22.12.17	11:40	22.12.17	13:32	Unit tripped due to tripping of GT#3 as the machine was running on single boiler.
		13.1.18	14:30	13.1.18	17:42	Unit tripped due to tripping of GT#3
17.1.18	08:15	17.1.18	12:30	Unit tripped as GT#3 tripped on very high TAD.		
17.1.18	12:00	25.1.18	10:04	Unit stopped due to low demand.		
25.1.18	22:49	31.3.18	23:59	Unit stopped due to low demand.		
STG-3	30	28.3.17	18:45	24.4.17	18:00	Unit taken for Chemical Cleaning of Condensor
		24.4.17	18:00	30.4.17	07:00	Chemical Cleaning of Condensor completed but machine not taken on load due to less schedule.
		30.4.17	07:00	30.4.17	19:15	Unit was not available due to non availability of cooling water as there was leakage from CW return line for which plant shut down was taken.
		30.4.17	19:15	1.5.15	11:22	Unit could not taken on load due to less schedule
		7.5.17	08:30	7.5.17	10:47	There was hunting in 24 Volt Charger Out put Voltage which leads to tripping of MCB of DDC panel CRB01, CRB02, CRC01,CRC03 & CJJ02. Due to this Operating parameters were not available at BCD as well as on CRT and subsequently machine tripped on Turbine Ch-I & Ch-II.

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
STG-3	30	24.5.17	11:25	01.06.17	13:15	Unit stopped as there was no schedule on CCNG
		1.6.17	13:00	5.6.17	13:15	Unit stopped to attend leakage of steam from Main Steam Turbine Control valve.
		5.6.17	13:15	5.6.17	19:55	As per SLDC msg Machine taken on Bar.
		5.6.17	20:26	5.6.17	21:16	Unit tripped on Turbine RJB Vibration V.High
		11.6.17	12:37	11.6.17	14:59	Unit tripped on Turbine channel-1 & 2 operated.
		15.6.17	11:39	15.6.17	12:52	Unit tripped on Turbine channel-1 & 2 operated.
		16.6.17	03:49	13.07.17	17:22	Unit could not be taken on bar due to less schedule
		20.7.17	20:18	22.7.17	14:03	Unit stopped due to low demand.
		27.7.17	02:44	27.7.17	05:52	Unit tripped on Very High Drum level as the Drum level of HRSG# 5 could not be controlled. The other HRSG was tripped due to tripping of GT#6.
		28.7.17	10:42	28.7.17	12:42	Unit tripped as running GT # 5 tripped on overspeed bolt alarm.
		28.7.17	19:18	28.7.17	20:06	Unit tripped on Drum Level High
		28.7.17	20:54	28.7.17	22:21	Unit tripped on Class A Trip relay operated
		5.8.17	20:08	6.8.17	04:00	Unit stopped due to low demand.
		10.8.17	13:18	10.8.17	14:18	Unit tripped due to grid disturbance in 220kV Pragati yard
		17.8.17	23:28	18.8.17	03:38	Unit tripped on exhaust pressure very high.
		20.8.17	07:10	20.8.17	11:10	Unit tripped due to Turbine Channel-I & II operated.
		26.8.17	03:11	26.8.17	21:15	Unit stopped to attend CW Inlet Valve of STG #I.
		16.9.17	02:18	16.9.17	13:04	Unit stopped as the Generator winding tempertaure of machine became high due to problem in cooling water.
		17.9.17	15:30	17.9.17	19:51	Unit tripped as there was disturbance in the yard due to snapping of Y phase bus conductor of GT#4.
		18.9.17	18:49	18.9.17	19:38	Unit tripped with Turbine Ch-I & II operated.
		20.9.17	17:30	20.9.17	21:06	Unit stopped as the Generator winding tempertaure of machine became high due to problem in cooling water.
		22.9.17	10:08	22.9.17	18:00	Unit tripped on due to tripping of GT#6 on high TAD as the machine was running on single boiler.
		22.9.17	18:00	23.9.17	08:15	Unit stopped due to low demand.
		23.9.17	08:15	23.9.17	12:15	Unit not available due to problem in NRV of ACW line.
		23.9.17	12:15	23.9.17	16:13	Unit stopped due to low demand.
		25.9.17	18:10	27.9.17	23:30	Unit tripped due to lube oil temp very high.
		27.9.17	23:30	28.9.17	23:59	Unit stopped due to low demand.
		30.9.17	21:00	4.10.17	01:14	
		7.10.17	17:30	8.10.17	09:55	Unit stopped due to heavy leakage from ACW inlet line of STG# III.
		10.10.17	02:25	10.10.17	03:40	Unit tripped due to drum level low.
12.10.17	08:14	14.10.17	13:05	Unit tripped due to tipping of GT#5 as the unit was running on single GT but not taken on load due to low demand		
17.10.17	23:01	1.11.17	08:52	Unit stopped due to low demand.		
2.11.17	19:30	2.11.17	20:58	Unit tripped due to hotwell level high		

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
STG-3	30	4.11.17	07:45	18.11.17	19:28	Unit changedover to STG-III.
		23.11.17	08:54	23.11.17	09:47	Unit tripped due to tripping of CEP-3B and CEP-3A could not start. Machine thus tripped on low vacuum.
		11.12.17	12:45	11.12.17	13:55	Due to problem in Woodward Governor system load on unit could not be increased beyond 2MW hence unit tripped manually.
		13.12.17	07:40	13.12.17	08:17	Unit tripped on Class-A operated.
		16.12.17	14:46	25.1.18	09:54	Unit stopped as per demand of SLDC
		25.1.18	22:37	29.1.18	09:03	Unit stopped due to low demand.
		30.1.18	15:52	02.02.18	09:40	Unit stopped due to low demand.
		3.2.18	01:06	15.2.18	14:20	Unit stopped due to low schedule.
		21.2.18	13:41	25.2.18	15:17	Unit tripped due to tripping of GT-5. Heavy jerk was observed in the system.
		26.2.18	07:26	26.2.18	08:26	STG-III tripped due to CEP-3A Breaker Flash out during changeover from CEP-3B to CEP-3A. 800 KVA TX-II tripped in jerk.
		1.3.18	17:20	1.3.18	18:30	STG-III tripped due to tripping of GT-5
		7.3.18	08:35	7.3.18	10:14	STG _ III tripped due to High hunting in Sec. Oil pressure and thus hunting in load.
		23.3.18	20:00	31.3.18	23:59	Unit stopped due to changeover from mod-III to Mod -I.

(C) PRAGATI

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	104	17.02.17	12.10	01.04.17	11.36	Unit tripped due to internal fault
		18.04.17	15.35	20.04.17	19.47	GT#2 swapped by GT#1 and started after getting schedule.
		27.04.17	00.39	02.06.17	12.36	Unit stopped due to low demand.
		02.06.17	19.34	05.06.17	14.20	
		07.06.17	10.34	13.06.17	15.49	
		16.06.17	07.27	17.06.17	09.51	
		20.06.17	11.08	11.07.17	17.48	
		11.07.17	16.17	27.07.17	11.26	
		07.08.17	12.03	11.08.17	12.33	
		14.08.17	07.37	14.08.17	12.12	Unit tripped due to internal fault
		15.08.17	16.46	15.08.17	21.30	Unit stopped due to no schedule.
		15.08.17	21.30	16.08.17	11.03	
		22.08.17	11.24	22.08.17	12.09	Unit tripped due to internal fault.
		24.09.17	20.20	25.09.17	11.00	Unit stopped to attend hot spot.
		25.09.17	11.00	25.09.17	12.44	Unit stopped due to low demand.
		26.11.17	01.34	26.11.17	05.40	Unit tripped due to grid disturbance
		31.12.17	09.00	31.12.17	21.30	Planned maintenance.
		31.12.17	21.30	01.01.18	07.33	Unit stopped due to low demand.
		13.01.18	21.45	14.01.18	23.30	Unit stopped for planned
		14.01.18	23.30	15.01.18	05.52	Stopped due to low demand and high frequency
		04.02.18	08.30	04.02.18	13.16	Unit tripped on grid disturbanec
		14.02.18	08.50	14.02.18	11.59	
		02.03.18	00.00	22.03.18	11.32	Unit Stopped for planned mtc.
22.03.18	13.53	22.03.18	19.01	Trial run of G.T.-1		
20.03.18	20.03	23.03.18	14.46			
23.03.18	15.04	23.03.18	19.02			
23.03.18	20.03	31.03.18	23.59			

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
2	104	01.04.17	13.14	06.04.17	09.00	GT#2 swapped by GT#1
		06.04.17	09.00	06.04.17	19.00	GT#2 was unavailable for Planned Maintenance
		06.04.17	19.00	18.04.17	14.05	Stopped due to low demand and high frequency
		17.06.17	09.01	17.06.17	12.00	Stopped due to internal fault.
		17.06.17	12.00	21.06.17	05.40	Stopped due to low demand and high frequency
		01.08.17	08.58	01.08.17	11.15	Tripped due to as pressure low
		01.08.17	13.47	01.08.17	18.10	Unit tripped due to internal fault
		08.08.17	07.08	08.08.17	08.25	
		08.09.17	12.29	08.09.17	13.49	Unit tripped due to grid disturbance
		23.09.17	11.27	24.09.17	20.56	Stopped due to low demand and high frequency
		31.10.17	14.00	03.11.17	22.41	Stopped for planned inspection.
		04.11.17	06.20	04.11.17	10.13	Unit tripped due to internal fault
		08.11.17	08.54	08.11.17	11.44	Unit tripped due to internal fault
		26.11.17	01.34	26.11.17	02.25	Unit tripped due to grid disturbance
		12.12.17	00.28	12.12.17	03.45	Tripped due to grid disturbance
		12.12.17	03.45	12.12.17	24.00	Planned mtc.
		13.12.17	00.00	13.12.17	06.43	Unit tripped due to grid disturbance
		15.12.17	02.12	15.12.17	05.14	Internal fault
		12.01.18	22.12	13.01.18	20.40	Unit Stopped for planned mtc.
		14.02.18	08.50	14.02.18	10.28	Unit tripped on grid disturbance
14.02.18	15.29	14.02.18	18.31	Stopped due to low demand and high frequency		
07.03.18	00.00	13.03.18	06.12			
		26.03.18	17.05	Unit tripped due to internal fault		
STG	122	24.04.17	09.33	27.04.17	10.49	STG tripped on internal fault.
		24.05.17	10.38	24.05.17	12.12	
		17.06.17	09.03	17.06.17	11.18	Desynchronized as G.T.-2 tripped on internal fault.
		20.06.17	11.08	21.06.17	08.45	Stopped due to low demand and high frequency
		08.08.17	07.08	08.08.17	09.50	Unit tripped due to internal fault
		25.08.17	17.23	25.08.17	18.54	Unit stopped to attend internal fault
		08.09.17	12.29	08.09.17	13.55	Unit tripped due to grid disturbance
		11.09.17	05.26	11.09.17	09.15	Unit stopped to attend hot spot
		14.10.17	08.48	14.10.17	11.02	Unit tripped due to internal fault
		15.10.17	08.52	15.10.17	13.18	
		16.10.17	05.34	16.10.17	10.14	
		01.11.17	17.44	01.11.17	18.25	Unit tripped due to grid disturbance
		26.11.17	01.19	26.11.17	11.02	
		12.12.17	00.28	12.12.17	03.01	
		01.01.18	06.55	01.01.18	08.13	STG tripped on internal fault
		13.01.18	11.21	13.01.18	12.04	Unit tripped due to grid disturbance
		14.02.18	08.50	14.02.18	14.32	
		14.02.18	17.49	14.02.18	18.39	
		21.02.18	12.34	21.02.18	14.55	Unit Stopped for planned mtc.
		07.03.18	00.05	13.03.18	13.56	
23.03.18	13.53	23.03.18	20.24	STG tripped on internal fault		
		26.03.18	17.47	STG tripped on unit 2		

(D)

BADARPUR THERMAL POWER STATION

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	95	20.11.14	00.00	31.03.18	23.59	Not in operation due to not meeting pollution norms.
2	95	24.09.15	19.52	31.03.18	23.59	Not in operation due to not meeting pollution norms.
3	95	09.10.15	01.00	31.03.18	23.59	Not in operation due to not meeting pollution norms.
4	210	04.04.17	05.17	17.04.17	07.13	Stopped due to low demand and high frequency
		29.04.17	10.37	29.04.17	12.42	Generator protection
		06.05.17	18.08	06.05.17	22.49	Hot spot on GT Bushing
		31.05.17	14.00	05.06.17	07.31	Stopped due to low demand and high frequency
		23.06.17	21.27	25.06.17	10.45	Stopped due to water wall leakage BTL.
		25.06.17	10.45	26.06.17	05.20	AVR excitation problem.
		07.07.17	18.12	08.07.17	20.10	Water wall leakage
		10.08.17	03.17	10.08.17	06.38	UTT/ST Problem.
		05.09.17	00.30	05.09.17	22.15	Water wall tube leakage
		12.09.17	17.13	14.09.17	09.55	Reheater tube leakage
		19.09.17	16.52	20.09.17	14.57	Wall wall tube leakage
		24.09.17	09.39	27.09.17	08.56	Stopped due to low demand and high frequency
		16.10.17	23.47	31.03.18	23.59	Stopped by DPCC due to not meeting pollution norms
5	210	21.12.16	00.00	04.04.17	01.39	Stopped due to low demand and high frequency
		13.05.17	14.44	14.05.17	00.05	PA Fan 5A motor shaft shared
		14.05.17	00.06	14.05.17	05.34	Generation excitation low
		27.05.17	19.15	28.05.17	11.30	Stopped due to low demand and high frequency
		28.05.17	11.30	29.05.17	07.36	
		29.06.17	19.56	03.07.17	10.38	
				16.10.17	23.24	31.03.18

(E)

BAWANA CCGT POWER STATION

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	216	07.02.17	19:20	09.05.17	15:32	Low or No scheduling of Bawana.(Trial Run)
		09.05.17	16:47	10.05.17	4:30	Low or No scheduling of Bawana. (Trial Run)
		10.05.17	13:21	12.05.17	5:40	Stopped due to low demand and high frequency
		21.05.17	16:48	21.05.17	18:30	Black Out (Grid Restore@18:30 hrs.). unit tripped
		21.05.17	18:30	24.05.17	10:18	Unit stopped due to less demand.
		31.05.17	20:15	16.06.17	16:50	
		16.06.17	00:00	16.06.17	16:50	
		17.06.17	19:30	17.06.17	7:41	
		19.06.17	17:39	19.06.17	8:11	
		23.06.17	19:01	23.06.17	8:05	
		25.06.17	12:35	25.06.17	6:54	
		06.08.17	12:32	06.08.17	14:44	Due to some maintenance work unit was taken out.
		07.08.17	12:39	07.08.17	14:27	Mixing of 220V AC & 110 DC.
		19.08.17	17:40	24.08.17	08.23	Unit stopped due to less demand.
		25.09.17	11:04	07.10.17	15:00	Unit stopped due to internal fault
		07.10.17	15:00	07.10.17	21:09	Unit stopped due to less demand.
		01.11.17	03:36	01.11.17	06:08	GT#1 unloaded due to malfunction of limit switch of compressor bleed valve which was supposed to be closed.
		05.11.17	13:27	05.11.17	21:40	Filter replacement
		17.11.17	04:15	19.11.17	21:00	
		01.12.17	14:00	01.12.17	15:24	Internal fault
		17.12.17	21:58	27.12.17	00:00	Unit stopped due to less demand.
		27.12.17	00:00	27.12.17	12:00	Unit stopped due to boroscopic inspection
		27.12.17	12:00	05.01.18	08:41	Unit stopped due to less demand.
		06.01.18	00:00	08.01.18	13:40	
		25.01.18	04:51	25.01.18	10:28	Unit stopped due to high DP
		25.01.18	11:04	25.01.18	12:28	High vibration
		25.01.18	12:32	30.01.18	13:26	Unit stopped due to less demand.
		11.02.18	20:50	11.02.18	23:02	Unit tripped due to internal fault
		12.02.18	16:44	08.03.18	05:25	Unit stopped due to less demand.
		16.03.18	00:00	19.03.18	13:00	Due to high DP unit shut down and filter replaced
19.03.18	13:00	20.04.18	11:40	Unit stopped due to less demand.		
25.03.18	12:30	28.03.18	18:06			
2	216	08.12.16	06:35	31.05.17	16:52	Unit stopped due to less demand.
		03.06.17	12:04	05.07.17	13:47	
		23.07.17	13:57	24.07.17	16:19	
		04.08.17	11:30	04.08.17	18:30	Unit tripped due to internal fault
		07.08.17	12:41	08.08.17	10:43	
		29.08.17	12:00	29.08.17	23:59	Unit stopped due to less demand.
		01.09.17	00:00	14.12.17	23:59	Upgradation and overhauling of generator.
		15.12.17	23:04	15.12.17	24:00	Unit tripped due to loss of flame.
		15.12.17	00:00	15.12.17	04:05	

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
2	216	04.01.18	22:35	05.01.18	02:42	LBB protection operated leading to tripping of bays.
		05.01.18	12:53	05.01.18	15:28	Unit Stopped on internal fault.
		06.01.18	08:27	06.01.18	11:03	Due to uncleared fault in 400 KV Bawana – Deepalpur line all the 400 KV Lines emanating from 400 KV CCGT Bawana substation and 400kV DTL Bawana S/Stn tripped from remote end along with Generator Transformers of CCGT Bawana leading to complete blackout.
		04.02.18	20:00	04.02.18	23:22	Unit tripped due to internal fault
		06.02.18	21:00	12.02.18	14:44	Unit stopped due to less demand.
		02.03.18	01:12	05.03.18	1:00	
		05.03.18	08:59	05.03.18	10:37	Gas-turbine tripped on Loss of flame.
		20.03.18	15:25	22.03.18	4:45	Unit stopped due to less demand.
		30.03.18	12:25	30.03.18	15:06	Unit tripped on the high exhaust temp spread.
STG-I	254	07.02.17	19:24	09.05.17	18:00	Minor Overhauling.(DC introduced w.e.f.18:00 hrs.)
		09.05.17	18:00	12.05.17	15:19	Unit stopped due to less demand.
		21.05.17	16:48	21.05.17	18:30	Unit tripped due to grid disturbance.
		21.05.17	18:30	24.05.17	9:01	Turbine Roter maintenance.
		24.05.17	9:01	24.05.17	16:13	Unit stopped due to less demand.
		26.05.17	2:35	26.05.17	3:27	Due to AVR trouble alarm, Master relay operated and caused Generator Circuit Breaker of STG#1 to open. “Load shed detected” appeared in alarm list.
		31.05.17	5:13	31.05.17	7:26	Due to AVR trouble alarm, Master relay operated and caused Generator Circuit Breaker of STG#1 to open. “Load shed detected” appeared in alarm list. Malfunction of one Digital Input card which generates this signal was suspected.
		31.05.17	13:25	31.05.17	16:30	Due to AVR trouble alarm, Master relay operated and caused Generator Circuit Breaker of STG#1 to open. “Load shed detected” appeared in alarm list. Malfunctioning of OverVoltage Relay circuit generated this AVR Trouble alarm which caused Master Relay to operate.
		03.06.17	12:04	19.06.17	14:05	Stopped due to low demand and high frequency
		19.06.17	18:55	25.06.17	12:32	
		07.08.17	00:00	07.08.17	19:58	Mixing of 220V AC and 110V DC.
		25.09.17	11:16	28.09.17	19:30	Stopped due to internal fault
		28.09.17	19:30	07.10.17	15:00	Stopped due to non availability of G.T.-I & II
		07.10.17	15:00	08.10.17	07:48	Stopped due to low demand and high frequency
		01.11.17	03:45	01.11.17	08:08	Unit tripped manually
		05.11.17	13:33	05.11.17	23:11	Filter replacement
		08.11.17	10:46	08.11.17	12:31	Tripped dueto AVR trouble
		17.11.17	04:15	19.11.17	21:00	Filter replacement
		01.12.17	14:02	01.12.17	16:22	Internal fault
		04.01.18	22:41	05.01.18	04:06	GT#1 stopped to attend internal fault consequently STG#1 stopped
		06.01.18	08:27	06.01.18	13:01	Due to uncleared fault in 400 KV Bawana – Deepalpur line all the 400 KV Lines emanating from 400 KV CCGT Bawana substation and 400 KV DTL Bawana Substation tripped from remote end along with Generator Transformers of CCGT Bawana leading to complete blackout.
		07.01.19	01:01	07.01.19	07:44	HPSU Emeagency Off
		10.01.18	17:15	10.01.18	19:58	Planned Mtc.
18.01.18	11:39	18.01.18	12:34	Due to high shaft Vibration.		

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
STG-1	254	28.01.18	07:34	28.01.18	17:12	STG#1 tripped Due to earth fault.
		29.01.18	06:08	29.01.18	15:44	Tripped due to internal fault.
		04.02.18	20:00	04.02.18	23:59	Half STG#1 not available due to non availability of GT#2
		11.02.18	20:50	12.02.18	00:39	Unit tripped on internal fault.
		23.02.18	16:06	23.02.18	16:52	Unit tripped on internal fault.
		25.02.18	17:38	25.02.18	20:34	Unit tripped on AVR trouble. Field breaker tripped due to overvoltage.
		26.02.18	00:50	26.02.18	02:42	Unit tripped on internal fault.
		28.02.18	13:14	28.02.18	14:53	
		02.03.18	01:14	04.03.18	22:45	Planned Mtc.
		04.03.18	22:45	05.03.18	08:03	Unit stopped due to less demand.
05.03.18	09:02	05.03.18	11:34	Gas-turbine tripped on "Loss of flame" with decrease in P2 pressure consequently half of STG was taken out of DC.		
3	216	15.04.17	16:06	03.05.17	16:55	Unit stopped due to less demand.
		04.05.17	00:12			When lead selection was given to AOP-2, as per logic, AOP -1 stopped. But Pr. Transmitter sensed a dip in the lube oil pressure causing tripping of GT#3. AOP-1 came back in service with a time delay of 4 sec after command from Mark-VI.
				04.05.17	02:32	
		06.05.17	00:15	13.06.17	17:07	Unit stopped due to less demand.
		13.06.17	20:30	06.09.17	11:47	
		06.09.17	23:16	12.09.17	08:00	
		12.09.17	08:00	04.10.17	10:30	
		04.10.17	10:30	13.10.17	24:00	
		14.10.17	10:15	15.10.17	09:30	Unit tripped on internal fault.
		15.10.17	09:30	17.11.17	11:52	Unit stopped due to less demand.
		19.11.17	20:38	21.11.17	15:55	
		24.11.17	21:16	09.12.17	20:54	
10.12.17	03:07	10.12.17	09:38			
11.12.17	13:01	01.03.18	23:26			
02.03.18	19:15	31.03.18	24:00			
4	216	01.04.17	11:25	24.05.17	05:23	Unit stopped due to less demand.
		24.05.17	14:16	03.06.17	18:26	
		06.06.17	17:35	06.06.17	22:06	Due to Burning of PT circuit wire caused unbalance of voltage in relay thereby resulting in Stator Earth Fault.
		13.06.17	14:42			AC & DC signals occurred instantaneously in the DDC panel (CRE 43 & 44) which controls the operations of all the Breakers from the remote (ECP/ OWS System), without any process command which resulted in instantaneous Trip command to Breakers.
				13.06.17	19:23	
		25.06.17	13:32	19.08.17	06:17	Due to changeover the machine.
		06.09.17	23:59	13.09.17	09:52	Unit stopped due to less demand.
		18.09.17	15:29	18.09.17	18:24	Due to earth rotor fault
		22.09.17	22:04	27.09.17	08:31	Unit stopped due to less demand.
		01.10.17	00:00	15.10.17	24:00	
		16.10.17	00:00	29.10.17	16:30	Unit tripped on internal fault.
		29.10.17	16:30	01.11.17	12:10	Unit stopped due to less demand.
		01.11.17	19:49	08.11.17	12:23	
21.11.17	16:50	09.12.17	21:36			
09.12.17	22:32	31.03.18	23:59			

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
STG-2	254	03.05.17	17.40	03.05.17	19.05	While checking the operation of LPBP of HRSG-3 inadvertently the CV got fully opened causing condenser vacuum to drop rapidly and STG-2 tripped on Low Condenser Vacuum
		12.05.17	17.30	04.06.17	00.14	Unit stopped due to less demand.
		04.06.17	14.38	04.06.17	17.00	Malfunction of DVR system which caused Field Breaker to open. The reason which would have caused this problem was the high ambient temperature inside the Thyristor Panel Room.
		04.06.17	18.39	04.06.17	21.34	
		06.06.17	17.35	07.06.17	01.18	Burning of PT circuit wire caused unbalance of voltage in relay thereby resulting in Stator Earth Fault.
		25.06.17	13.37	19.08.17	17.09	Stopped due to low demand and high frequency
		28.08.17	11.40	28.08.17	13.09	Tripped due to internal fault
		06.09.17	20.26	28.09.17	18.57	Stopped due to internal fault
		01.10.17	00.05	01.10.17	02.12	Tripped on low vacuum.
08.10.17	00.09	31.03.18	23.59	Tripped on internal fault.		

(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	Still out		No gas availability
2	31.8	07.06.13	22:41	Still out		No gas availability
STG	31.8	07.06.13	22:38	Still out		Due to non operation of GTs

9 POWER SUPPLY POSITION OF DELHI DURING 2017-18

9.1 Power supply position during the month of April 2017

All figures in MUs

S. no.	SOURCE	Availability at Power Plant bus	Availability at Delhi periphery	Power Scheduled at Power Plant	Power scheduled at Delhi periphery
	NTPC STATIONS				
1	SINGRAULI	85.512	83.824	83.112	81.463
2	SINGRAULI (HYDRO)	0.000	0.000	0.000	0.000
3	RIHAND-I	66.305	65.001	62.619	61.399
4	RIHAND-II	42.984	42.131	40.887	40.078
5	RIHAND-III	86.436	84.713	80.600	78.989
6	UNCHAHAR-I	15.784	15.468	11.304	11.076
7	UNCHAHAR-II	32.569	31.926	23.381	22.916
8	UNCHAHAR-III	17.495	17.124	12.754	12.482
9	UNCHAHAR-IV	0.000	0.000	0.000	0.000
10	DADRI (TH)-I	528.120	517.698	327.766	321.379
11	DADRI(TH)--II	524.841	514.475	397.390	389.573
12	FARAKKA	8.620	8.456	5.889	5.781
13	KAHALGAON-I	32.368	31.728	22.928	22.483
14	KAHALGAON-II	102.591	100.580	80.763	79.198
15	ANTA (GT)	3.301	3.210	1.053	1.024
16	ANTA (Liquid)	0.000	0.000	0.000	0.000
17	ANTA (RLNG)	24.303	23.856	0.000	0.000
18	AURAIYA (GT)	3.027	2.963	2.262	2.214
19	AURAIYA (Liquid)	0.000	0.000	0.000	0.000
20	AURAIYA (RLNG)	41.827	40.970	0.000	0.000
21	DADRI (GT)	17.550	17.179	9.813	9.606
22	DADRI (Liquid)	0.000	0.000	0.000	0.000
23	DADRI (RLNG)	34.661	34.040	0.000	0.000
24	TALCHER	0.000	0.000	0.000	0.000
25	TALA	5.198	5.093	5.196	5.091
A.	TOTAL NTPC STATIONS (TOTAL 1-25)	1673.492	1640.435	1167.716	1144.753
26	TANAKPUR	1.596	1.567	1.596	1.567
27	CHAMERA-I	24.810	24.331	24.810	24.331
28	CHAMERA-II	23.025	22.581	23.025	22.581
29	CHAMERA-III	13.886	13.631	13.886	13.631
30	BAIRA SUIL	12.537	12.293	12.537	12.293
31	SALAL	41.925	41.130	41.925	41.130
32	DAULI GANGA	9.597	9.418	9.597	9.418
33	DULASTI	30.743	30.164	30.743	30.164
34	URI-I	37.031	36.304	37.031	36.304
35	URI-II	21.721	21.303	21.721	21.303
36	SEWA -II	11.670	11.437	11.670	11.437
37	PARBATI-III	5.595	5.488	5.595	5.488
B	TOTAL NHPC STATIONS (TOTAL 26 - 37)	234.136	229.647	234.136	229.647
38	NAPP	27.998	27.461	27.948	27.412
39	RAPP 'B'	0.000	0.000	0.000	0.000
40	RAPP 'C'	21.498	21.097	21.498	21.097
C	TOTAL NPC STATIONS (TOTAL 38-40)	49.497	48.558	49.446	48.509
41	TEHRI	10.307	10.106	10.307	10.106

S. no.	SOURCE	Availability at Power Plant bus	Availability at Delhi periphery	Power Scheduled at Power Plant	Power scheduled at Delhi periphery
42	KOTESHWAR	7.722	7.572	7.722	7.572
D	Total THDC STATIONS (TOTAL 41-42)	18.029	17.677	18.029	17.677
E	NATHPA JHAKHRI(SJVNL)	57.927	56.871	43.214	42.426
F	JHAJJAR	470.251	461.009	93.242	91.416
G	SASAN	298.712	292.814	298.851	292.934
H	TOTAL CENTRAL SECTOR (A+B+C+D+E+F+G)	2802.044	2747.011	1904.633	1867.361
	LONG TERM BILATERAL AGREEMENTS				
(I)	DVC	220.787	218.919	218.919	214.780
(ii)	MAITHON	171.641	170.188	170.188	166.956
(iii)	DVC MEJIA	74.097	73.473	73.473	72.021
(iv)	RASJASTHAN (SOLAR) BRPL	4.104	4.025	4.025	3.945
(v)	RASJASTHAN (SOLAR) BYPL	3.934	3.858	3.858	3.782
(vi)	RASJASTHAN (SOLAR) TPDDL	3.824	3.751	3.751	3.677
(vii)	CLP JHAJJAR	26.161	26.000	26.000	25.518
I	TOTAL LTA (TOTAL i TO vii)	504.548	500.213	500.213	490.679
	BILATERAL IMPORT				
(I)	MEGHALAYA	0.266	0.264	0.264	0.258
(ii)	URS	3.755	3.681	3.755	3.681
(iii)	ORISSA	0.283	0.281	0.281	0.275
(iv)	HIMACHAL PRADESH	24.051	23.811	23.811	23.430
(v)	JAMMU & KASHMIR	9.012	8.950	8.950	8.774
(vi)	POWER EXCHANGE(IEX)	102.687	99.892	102.687	99.892
(vii)	POWER EXCHANGE (PX)	0.000	0.000	0.000	0.000
J	BILATERAL IMPORT (TOTAL (i to vii)	140.054	136.879	139.748	136.310
K	NET IMPORT (H + I + J)	3446.646	3384.103	2544.594	2494.351
	EXPORT				
(I)	RAJASTHAN				
(ii)	GOA	-5.790	-5.921	-5.921	-6.041
(iii)	NEPAL	-17.645	-17.764	-17.764	-18.122
(iv)	UTTAR PRADESH	-7.214	-7.410	-7.410	-7.555
(v)	BIHAR	-14.151	-14.380	-14.380	-14.671
(vi)	ANDHRA PRADESH	-66.902	-67.955	-67.955	-69.156
(vii)	JHARKHAND	-5.841	-5.903	-5.903	-6.061
(viii)	MAHARASHTRA	-34.826	-35.529	-35.529	-36.245
(ix)	UTTRANCHAL	-6.556	-6.744	-6.744	-6.898
(x)	TO POWER EXCHANGE (IEX)	-40.396	-41.203	-40.396	-41.203
(xi)	TO POWER EXCHANGE (PX)	0.000	0.000	0.000	0.000
(xii)	TO SHARE PROJECT (HARYANA)	-17.645	-18.000	-17.645	-18.000
(xiii)	TO POWER EXCHANGE (PUNJAB)	-17.645	-18.000	-17.645	-18.000
L	TOTAL EXPORT (TOTAL I to)	-234.610	-238.810	-237.293	-241.952
M	NET DRAWAL OF DELHI (K + L)	3212.036	3145.293	2307.301	2252.398
N	OVER DRAWAL(+)/UNDER DRAWAL(-) FROM THE GRID				-24.924
	AVAILABILITY FROM OWN SOURCES				
(i)	RAJGHAT				0.000
(ii)	GAS TURBINE				44.445
(iii)	PRAGATI				129.849
(iv)	RITHALA				0.000
(v)	BAWANA				193.247
(vi)	BTPS				172.090

S. no.	SOURCE	Availability at Power Plant bus	Availability at Delhi periphery	Power Scheduled at Power Plant	Power scheduled at Delhi periphery
(vii)	Timarpur - Okhla Waste Management				14.387
(viii)	EAST DELHI WASTE PROCESSING CO.LTD.				1.892
(ix)	Delhi Municipality Solid Waste Ltd.				13.768
O	TOTAL AVAILABILITY WITHIN DELHI (TOTAL i to ix)				569.678
	AVAILABILITY FROM RENEWABLE SOURCES				
(i)	RENEWABLE SOLAR (NDPL)				0.175911
(ii)	RENEWABLE SOLAR (BRPL)				0.060
(iii)	RENEWABLE SOLAR (BYPL)				0.033662
(iv)	RENEWABLE SOLAR (NDMC)				0.00000
(v)	NON SOLAR (BYPL)				0.00000
(vi)	NON SOLAR (BRPL)				0.00000
P	TOTAL SOLAR ENERGY (TOTAL i to vi)				0.270
Q	TOTAL AVAILABILITY WITHIN DELHI (O + P)				569.948
R	GROSS CONSUMPTION OF DELHI (M + N + Q)				2797.422
S	AUXILIARY CONSUMPTION DELHI GENCOS				19.566
T	NET CONSUMPTION OF DELHI (R - S)				2777.856
U	LOAD SHEDDING				1.893
V	TOTAL REQUIREMENT (T + U)				2779.749

9.2 Power supply position during the month of May 2017

All figures in MUs

S. no.	SOURCE	Availability at Power Plant bus	Availability at Delhi periphery	Power Scheduled at Power Plant	Power scheduled at Delhi periphery
	NTPC STATIONS				
1	SINGRAULI	90.784	88.131	85.834	83.324
2	SINGRAULI (HYDRO)	0.000	0.000	0.000	0.000
3	RIHAND-I	66.975	65.020	62.207	60.392
4	RIHAND-II	61.705	59.899	57.617	55.927
5	RIHAND-III	91.521	88.849	84.207	81.745
6	UNCHAHAR-I	14.168	13.754	8.523	8.273
7	UNCHAHAR-II	32.215	31.274	18.761	18.212
8	UNCHAHAR-III	20.032	19.447	11.842	11.496
9	UNCHAHAR-IV	0.000	0.000	0.000	0.000
10	DADRI (TH)-I	526.997	511.615	301.793	292.978
11	DADRI(TH)--II	501.917	487.262	374.400	363.436
12	FARAKKA	13.892	13.486	8.640	8.386
13	KAHALGAON-I	32.563	31.609	22.029	21.381
14	KAHALGAON-II	108.765	105.590	81.845	79.449
15	ANTA (GT)	0.000	0.000	0.000	0.000
16	ANTA (Liquid)	0.000	0.000	0.000	0.000
17	ANTA (RLNG)	29.983	29.107	0.000	0.000
18	AURAIYA (GT)	6.423	6.236	3.256	3.161
19	AURAIYA (Liquid)	0.000	0.000	0.000	0.000
20	AURAIYA (RLNG)	42.468	41.228	0.000	0.000
21	DADRI (GT)	28.652	27.815	5.488	5.328
22	DADRI (Liquid)	0.000	0.000	0.000	0.000
23	DADRI (RLNG)	32.973	32.010	0.000	0.000
24	TALCHER	0.000	0.000	0.000	0.000
25	TALA	7.087	6.883	7.087	6.883

S. no.	SOURCE	Availability at Power Plant bus	Availability at Delhi periphery	Power Scheduled at Power Plant	Power scheduled at Delhi periphery
A.	TOTAL NTPC STATIONS (TOTAL 1-25)	1709.119	1659.216	1133.528	1100.371
26	TANAKPUR	2.972	2.886	2.972	2.886
27	CHAMERA-I	24.206	23.502	24.206	23.502
28	CHAMERA-II	28.581	27.746	28.580	27.745
29	CHAMERA-III	20.233	19.642	20.233	19.642
30	BAIRA SUIL	10.390	10.088	10.388	10.085
31	SALAL	52.300	50.771	52.300	50.771
32	DAULI GANGA	13.212	12.826	13.212	12.826
33	DULASTI	36.530	35.463	36.530	35.463
34	URI-I	38.900	37.764	38.900	37.764
35	URI-II	22.410	21.759	22.410	21.759
36	SEWA -II	9.574	9.296	9.574	9.296
37	PARBATI-III	7.420	7.204	7.420	7.204
B	TOTAL NHPC STATIONS (TOTAL 26 - 37)	266.729	258.946	266.725	258.943
38	NAPP	28.601	27.766	28.601	27.766
39	RAPP 'B'	0.000	0.000	0.000	0.000
40	RAPP 'C'	38.429	37.308	38.429	37.308
C	TOTAL NPC STATIONS (TOTAL 38-40)	67.031	65.074	67.031	65.074
41	TEHRI	11.125	10.800	11.125	10.800
42	KOTESHWAR	9.167	8.899	9.167	8.899
D	Total THDC STATIONS (TOTAL 41-42)	20.292	19.699	20.292	19.699
E	NATHPA JHAKHRI(SJVNL)	92.712	90.003	69.162	67.142
F	JHAJJAR	484.093	469.940	215.012	208.684
G	SASAN	269.457	261.595	262.086	254.432
H	TOTAL CENTRAL SECTOR (A+B+C+D+E+F+G)	2909.433	2824.474	2033.835	1974.345
	LTA				
(I)	DVC	246.045	244.093	244.093	236.995
(ii)	MAITHON	185.390	183.924	183.924	178.547
(iii)	DVC MEJIA	74.965	74.371	74.371	72.199
(iv)	RASJASTHAN (SOLAR) BRPL	3.867	3.803	3.803	3.692
(v)	RASJASTHAN (SOLAR) BYPL	3.593	3.534	3.534	3.431
(vi)	RASJASTHAN (SOLAR) TPDDL	3.663	3.602	3.602	3.497
(vii)	CLP JHAJJAR	29.501	29.233	29.233	28.386
I	TOTAL LTA (TOTAL i TO vii)	547.024	542.561	542.561	526.748
	BILATERAL IMPORT				
(I)	ANDHRA PRADESH	0.410	0.405	0.405	0.395
(ii)	MEGHALAYA	2.445	2.422	2.422	2.347
(iii)	MADHYA PRADESH	3.683	3.647	3.647	3.537
(iv)	HARYANA	2.313	2.291	2.291	2.224
(v)	URS	3.892	3.779	3.892	3.779
(vi)	MAHARASHTRA	0.470	0.462	0.462	0.448
(vii)	CHATTISHGARH	0.073	0.071	0.071	0.069
(viii)	HIMACHAL PRADESH	267.769	263.368	263.368	255.684
(ix)	JAMMU & KASHMIR	143.416	142.106	142.106	137.957
(x)	TAMILNAIDU	0.051	0.051	0.051	0.049
(xi)	POWER EXCHANGE(IEX)	80.713	78.354	80.713	78.354
(xii)	POWER EXCHANGE (PX)	0.000	0.000	0.000	0.000
J	BILATERAL IMPORT (TOTAL (i to xii)	505.235	496.956	499.429	484.843
K	NET IMPORT (H + I + J)	3961.693	3863.991	3075.825	2985.936
	EXPORT				

S. no.	SOURCE	Availability at Power Plant bus	Availability at Delhi periphery	Power Scheduled at Power Plant	Power scheduled at Delhi periphery
(I)	UTTAR PRADESH	-12.592	-12.967	-12.967	-13.355
(ii)	TAMILNADU	-0.378	-0.384	-0.384	-0.396
(iii)	HIMACHAL PRADESH	-3.267	-3.321	-3.321	-3.420
(iv)	MAHARASHTRA	-18.387	-18.810	-18.810	-19.372
(v)	WEST BENGAL	-0.022	-0.022	-0.022	-0.023
(vi)	TO POWER EXCHANGE (IEX)	-101.829	-104.899	-101.829	-104.899
(vii)	TO POWER EXCHANGE (PX)	0.000	0.000	0.000	0.000
(viii)	TO SHARE PROJECT (HARYANA)	-18.404	-18.953	-18.404	-18.953
(ix)	TO POWER EXCHANGE (PUNJAB)	-18.116	-18.658	-18.116	-18.658
L	TOTAL EXPORT (TOTAL I to ix)	-172.994	-178.015	-173.854	-179.076
M	NET DRAWAL OF DELHI (K + L)	3788.698	3685.976	2901.972	2806.860
N	OVER DRAWL(+)/UNDER DRAWAL(-) FROM THE GRID				-11.893
	AVAILABILITY FROM OWN SOURCES				
(i)	RAJGHAT				0.000
(ii)	GAS TURBINE				50.665
(iii)	PRAGATI				117.893
(iv)	RITHALA				0.000
(v)	BAWANA				208.031
(vi)	BTPS				233.079
(vii)	Timarpur - Okhla Waste Management				13.731
(viii)	EAST DELHI WASTE PROCESSING CO.LTD.				2.259
(ix)	Delhi Municipality Solid Waste Ltd.				5.639
O	TOTAL AVAILABILITY WITHIN DELHI (TOTAL i to ix)				631.297
	AVAILABILITY FROM RENEWABLE SOURCES				
(i)	RENEWABLE SOLAR (NDPL)				0.165597
(ii)	RENEWABLE SOLAR (BRPL)				0.051
(iii)	RENEWABLE SOLAR (BYPL)				0.0289896
(iv)	RENEWABLE SOLAR (NDMC)				0.000000
(v)	NON SOLAR (BYPL)				0.000000
(vi)	NON SOLAR (BRPL)				0.000000
P	TOTAL SOLAR ENERGY (TOTAL i to vi)				0.246
Q	TOTAL AVAILABILITY WITHIN DELHI (O + P)				631.543
R	GROSS CONSUMPTION OF DELHI (M + N + Q)				3426.510
S	AUXILIARY CONSUMPTION DELHI GENCOS				18.699
T	NET CONSUMPTION OF DELHI (R - S)				3407.811
U	LOAD SHEDDING				2.643
V	TOTAL REQUIREMENT (T + U)				3410.454

9.3 Power supply position during the month of June 2017

All figures in MUs

S. no.	SOURCE	Availability at Power Plant bus	Availability at Delhi periphery	Power Scheduled at Power Plant	Power scheduled at Delhi periphery
	NTPC STATIONS				
1	SINGRAULI	93.293	90.763	79.303	77.158
2	SINGRAULI (HYDRO)	0.000	0.000	0.000	0.000
3	RIHAND-I	66.093	64.300	59.454	57.844
4	RIHAND-II	85.439	83.121	77.943	75.829
5	RIHAND-III	88.308	85.911	75.550	73.503
6	UNCHAHAR-I	14.363	13.973	6.960	6.771
7	UNCHAHAR-II	30.585	29.755	14.320	13.933
8	UNCHAHAR-III	19.084	18.567	8.946	8.704
9	UNCHAHAR-IV	0.000	0.000	0.000	0.000
10	DADRI (TH)-I	486.589	473.385	170.512	165.925
11	DADRI(TH)--II	498.182	484.665	317.320	308.727
12	FARAKKA	13.737	13.364	6.852	6.666
13	KAHALGAON-I	24.975	24.297	13.430	13.067
14	KAHALGAON-II	100.487	97.761	66.057	64.271
15	ANTA (GT)	5.310	5.170	1.119	1.089
16	ANTA (Liquid)	0.000	0.000	0.000	0.000
17	ANTA (RLNG)	23.697	23.050	0.000	0.000
18	AURAIYA (GT)	0.000	0.000	0.000	0.000
19	AURAIYA (Liquid)	0.000	0.000	0.000	0.000
20	AURAIYA (RLNG)	47.219	45.938	0.000	0.000
21	DADRI (GT)	27.853	27.096	5.404	5.258
22	DADRI (Liquid)	0.000	0.000	0.000	0.000
23	DADRI (RLNG)	30.489	29.662	0.000	0.000
24	TALCHER	0.000	0.000	0.000	0.000
25	TALA	11.946	11.622	11.972	11.647
A.	TOTAL NTPC STATIONS (TOTAL 1-25)	1667.650	1622.398	915.142	890.393
26	TANAKPUR	3.940	3.833	3.940	3.833
27	CHAMERA-I	27.647	26.899	27.647	26.899
28	CHAMERA-II	28.033	27.274	28.033	27.274
29	CHAMERA-III	20.332	19.781	20.332	19.781
30	BAIRA SUIL	8.851	8.612	8.851	8.612
31	SALAL	51.762	50.357	51.762	50.357
32	DAULI GANGA	19.361	18.835	19.361	18.835
33	DULASTI	34.690	33.749	34.690	33.749
34	URI-I	37.640	36.619	37.640	36.619
35	URI-II	22.558	21.944	22.557	21.944
36	SEWA -II	7.932	7.717	7.932	7.717
37	PARBATI-III	10.664	10.377	10.664	10.377
B	TOTAL NHPC STATIONS (TOTAL 26 - 37)	273.410	265.998	273.409	265.998
38	NAPP	27.690	26.939	27.690	26.939
39	RAPP 'B'	0.000	0.000	0.000	0.000
40	RAPP 'C'	38.703	37.652	38.703	37.652
C	TOTAL NPC STATIONS (TOTAL 38-40)	66.393	64.591	66.393	64.591
41	TEHRI	10.359	10.081	10.359	10.081
42	KOTESHWAR	8.889	8.650	8.889	8.650

S. no.	SOURCE	Availability at Power Plant bus	Availability at Delhi periphery	Power Scheduled at Power Plant	Power scheduled at Delhi periphery
D	Total THDC STATIONS (TOTAL 41-42)	19.249	18.730	19.249	18.730
E	NATHPA JHAKHRI(SJVNL)	99.241	96.550	74.032	72.024
F	JHAJJAR	402.570	391.663	268.085	260.829
G	SASAN	249.997	243.187	233.866	227.499
H	TOTAL CENTRAL SECTOR (A+B+C+D+E+F+G)	2778.510	2703.117	1850.175	1800.063
	LTA				
(I)	DVC	220.409	218.715	218.715	212.776
(ii)	MAITHON	170.253	168.941	168.941	164.367
(iii)	DVC MEJIA	67.356	66.836	66.836	65.030
(iv)	RASJASTHAN (SOLAR) BRPL	3.916	3.857	3.857	3.752
(v)	RASJASTHAN (SOLAR) BYPL	3.843	3.784	3.784	3.682
(vi)	RASJASTHAN (SOLAR) TPDDL	3.753	3.696	3.696	3.596
(vii)	CLP JHAJJAR	43.249	42.917	42.917	41.754
I	TOTAL LTA (TOTAL i TO vii)	512.780	508.747	508.747	494.957
	BILATERAL IMPORT				
(I)	ASSAM	11.052	10.978	10.978	10.680
(ii)	ANDHRA PRADESH	0.051	0.051	0.051	0.049
(iii)	MEGHALAYA	40.164	39.683	39.683	38.594
(iv)	WEST BENGAL	2.891	2.869	2.869	2.789
(v)	MADHYA PRADESH	10.629	10.510	10.510	10.225
(vi)	URS	7.261	7.064	7.261	7.064
(vii)	CHATTISHGARH	0.224	0.219	0.219	0.213
(viii)	ORISSA	63.417	62.928	62.928	61.222
(ix)	HIMACHAL PRADESH	336.674	331.565	331.565	322.545
(x)	JAMMU & KASHMIR	147.910	146.776	146.776	142.794
(xi)	KARNATAKA	0.277	0.274	0.274	0.266
(xii)	GOA	2.895	2.863	2.863	2.783
(xiii)	POWER EXCHANGE(IEX)	36.871	35.872	36.871	35.872
(xiv)	POWER EXCHANGE (PX)	0.000	0.000	0.000	0.000
J	BILATERAL IMPORT (TOTAL (i to xiv)	660.317	651.651	652.848	635.097
K	NET IMPORT (H + I + J)	3951.607	3863.516	3011.770	2930.118
	EXPORT				
(I)	UTTAR PRADESH	-2.169	-2.230	-2.230	-2.292
(ii)	TO POWER EXCHANGE (IEX)	-169.519	-174.306	-169.519	-174.306
(iii)	TO POWER EXCHANGE (PX)	0.000	0.000	0.000	0.000
(iv)	TO SHARE PROJECT (HARYANA)	-20.646	-21.221	-20.646	-21.221
(v)	TO POWER EXCHANGE (PUNJAB)	-14.165	-14.561	-14.165	-14.561
L	TOTAL EXPORT (TOTAL I to)	-206.498	-212.318	-206.559	-212.380
M	NET DRAWAL OF DELHI (K + L)	3745.109	3651.197	2805.211	2717.737
N	OVER DRAWL(+)/UNDER DRAWAL(-) FROM THE GRID				48.534
	AVAILABILITY FROM OWN SOURCES				
(i)	RAJGHAT				0.000
(ii)	GAS TURBINE				54.348
(iii)	PRAGATI				123.268
(iv)	RITHALA				0.000
(v)	BAWANA				198.346
(vi)	BTPS				206.460
(vii)	Timarpur - Okhla Waste Management				13.836
(viii)	EAST DELHI WASTE PROCESSING CO.LTD.				1.571
(ix)	Delhi Municipality Solid Waste Ltd.				9.557

S. no.	SOURCE	Availability at Power Plant bus	Availability at Delhi periphery	Power Scheduled at Power Plant	Power scheduled at Delhi periphery
O	TOTAL AVAILABILITY WITHIN DELHI (TOTAL i to ix)				607.386
	AVAILABILITY FROM RENEWABLE SOURCES				
(i)	RENEWABLE SOLAR (NDPL)				0.180570
(ii)	RENEWABLE SOLAR (BRPL)				0.038
(iii)	RENEWABLE SOLAR (BYPL)				0.0279348
(iv)	RENEWABLE SOLAR (NDMC)				0.000000
(v)	NON SOLAR (BYPL)				0.000000
(vi)	NON SOLAR (BRPL)				0.000000
P	TOTAL SOLAR ENERGY (TOTAL i to vi)				0.247
Q	TOTAL AVAILABILITY WITHIN DELHI (O + P)				607.633
R	GROSS CONSUMPTION OF DELHI (M + N + Q)				3373.904
S	AUXILIARY CONSUMPTION DELHI GENCOS				18.895
T	NET CONSUMPTION OF DELHI (R - S)				3355.009
U	LOAD SHEDDING				3.000
V	TOTAL REQUIREMENT (T + U)				3358.009

9.4 Power supply position during the month of July 2017

All figures in MUs

S. no.	SOURCE	Availability at Power Plant bus	Availability at Delhi periphery	Power Scheduled at Power Plant	Power scheduled at Delhi periphery
	NTPC STATIONS				
1	SINGRAULI	97.588	95.172	78.269	76.333
2	SINGRAULI (HYDRO)	0.000	0.000	0.000	0.000
3	RIHAND-I	66.090	64.454	58.566	57.116
4	RIHAND-II	88.347	86.161	81.725	79.703
5	RIHAND-III	50.253	49.009	42.555	41.502
6	UNCHAHAR-I	14.886	14.518	8.498	8.289
7	UNCHAHAR-II	29.236	28.514	16.403	15.999
8	UNCHAHAR-III	19.723	19.235	11.144	10.869
9	UNCHAHAR-IV	0.000	0.000	0.000	0.000
10	DADRI (TH)-I	501.240	488.811	153.525	149.736
11	DADRI(TH)--II	499.122	486.739	301.713	294.262
12	FARAKKA	14.926	14.556	5.700	5.558
13	KAHALGAON-I	31.670	30.885	11.554	11.268
14	KAHALGAON-II	107.449	104.788	59.089	57.630
15	ANTA (GT)	0.000	0.000	0.000	0.000
16	ANTA (Liquid)	0.000	0.000	0.000	0.000
17	ANTA (RLNG)	30.536	29.781	0.000	0.000
18	AURAIYA (GT)	0.000	0.000	0.000	0.000
19	AURAIYA (Liquid)	0.000	0.000	0.000	0.000
20	AURAIYA (RLNG)	49.349	48.128	0.000	0.000
21	DADRI (GT)	19.320	18.843	4.534	4.420
22	DADRI (Liquid)	0.000	0.000	0.000	0.000
23	DADRI (RLNG)	43.009	41.944	0.000	0.000
24	TALCHER	0.000	0.000	0.000	0.000
25	TALA	23.137	22.565	23.123	22.550
A.	TOTAL NTPC STATIONS (TOTAL 1-25)	1685.883	1644.103	856.395	835.236
26	TANAKPUR	7.974	7.777	7.954	7.757
27	CHAMERA-I	31.143	30.374	31.143	30.374

S. no.	SOURCE	Availability at Power Plant bus	Availability at Delhi periphery	Power Scheduled at Power Plant	Power scheduled at Delhi periphery
28	CHAMERA-II	28.761	28.050	28.761	28.050
29	CHAMERA-III	21.134	20.612	21.134	20.612
30	BAIRA SUIL	9.950	9.705	9.950	9.705
31	SALAL	54.775	53.423	54.775	53.423
32	DAULI GANGA	25.906	25.264	25.906	25.264
33	DULASTI	35.985	35.093	35.985	35.093
34	URI-I	38.230	37.284	38.215	37.269
35	URI-II	21.092	20.571	21.033	20.514
36	SEWA -II	12.049	11.751	12.049	11.751
37	PARBATI-III	24.394	23.792	24.286	23.687
B	TOTAL NHPC STATIONS (TOTAL 26 - 37)	311.393	303.698	311.190	303.501
38	NAPP	28.724	28.013	28.690	27.981
39	RAPP 'B'	0.000	0.000	0.000	0.000
40	RAPP 'C'	39.763	38.781	39.763	38.781
C	TOTAL NPC STATIONS (TOTAL 38-40)	68.487	66.794	68.453	66.761
41	TEHRI	23.022	22.464	22.921	22.366
42	KOTESHWAR	15.066	14.700	14.983	14.619
D	Total THDC STATIONS (TOTAL 41-42)	38.088	37.164	37.904	36.985
E	NATHPA JHAKHRI(SJVNL)	98.139	95.710	74.053	72.220
F	JHAJJAR	347.651	339.038	182.225	177.697
G	SASAN	284.951	277.889	258.897	252.488
H	TOTAL CENTRAL SECTOR (A+B+C+D+E+F+G)	2834.591	2764.395	1789.119	1744.888
	LTA				
(I)	DVC	234.859	232.785	232.785	227.029
(ii)	MAITHON	122.116	121.037	121.037	118.044
(iii)	DVC MEJIA	65.708	65.127	65.127	63.515
(iv)	RASJASTHAN (SOLAR) BRPL	3.465	3.416	3.416	3.331
(v)	RASJASTHAN (SOLAR) BYPL	3.415	3.367	3.367	3.283
(vi)	RASJASTHAN (SOLAR) TPDDL	3.347	3.300	3.300	3.218
(vii)	CLP JHAJJAR	39.947	39.684	39.684	38.704
I	TOTAL LTA (TOTAL i TO vii)	472.856	468.717	468.717	457.125
	BILATERAL IMPORT				
(I)	ASSAM	10.076	10.011	10.011	9.762
(ii)	ANDHRA PRADESH	8.671	8.602	8.602	8.388
(iii)	MEGHALAYA	37.539	37.109	37.109	36.179
(iv)	WEST BENGAL	4.022	3.987	3.987	3.885
(v)	MADHYA PRADESH	10.317	10.229	10.229	9.973
(vi)	URS	2.117	2.066	2.117	2.066
(vii)	KERALA	6.146	6.082	6.082	5.928
(viii)	MANIPUR	0.847	0.838	0.838	0.816
(ix)	CHATTISHGARH	23.145	22.717	22.717	22.139
(x)	UTTRANCHAL	0.180	0.178	0.178	0.173
(xi)	ORISSA	48.743	48.312	48.312	47.104
(xii)	HIMACHAL PRADESH	372.752	367.487	367.487	358.364
(xiii)	JAMMU & KASHMIR	132.453	131.581	131.581	128.325
(xiv)	GOA	4.361	4.324	4.324	4.215
(xv)	POWER EXCHANGE(IEX)	37.239	36.319	37.239	36.319
(xvi)	POWER EXCHANGE (PX)	0.000	0.000	0.000	0.000
J	BILATERAL IMPORT (TOTAL (i to xvi)	698.609	689.841	690.812	673.637
K	NET IMPORT (H + I + J)	4006.057	3922.952	2948.647	2875.651

S. no.	SOURCE	Availability at Power Plant bus	Availability at Delhi periphery	Power Scheduled at Power Plant	Power scheduled at Delhi periphery
	EXPORT				
(I)	UTTAR PRADESH	-2.755	-2.827	-2.827	-2.899
(ii)	HIMACHAL PRADESH	-0.749	-0.759	-0.759	-0.777
(iii)	TO POWER EXCHANGE (IEX)	-122.044	-125.148	-122.044	-125.148
(iv)	TO POWER EXCHANGE (PX)	0.000	0.000	0.000	0.000
(v)	TO SHARE PROJECT (HARYANA)	-32.314	-33.137	-32.314	-33.137
(vi)	TO POWER EXCHANGE (PUNJAB)	-32.169	-32.988	-32.169	-32.988
L	TOTAL EXPORT (TOTAL i to vi)	-190.031	-194.858	-190.113	-194.948
M	NET DRAWAL OF DELHI (K + L)	3816.026	3728.094	2758.534	2680.703
N	OVER DRAWL(+)/UNDER DRAWAL(-) FROM THE GRID				44.636
	AVAILABILITY FROM OWN SOURCES				
(i)	RAJGHAT				0.000
(ii)	GAS TURBINE				42.898
(iii)	PRAGATI				130.603
(iv)	RITHALA				0.000
(v)	BAWANA				338.269
(vi)	BTPS				231.601
(vii)	Timarpur - Okhla Waste Management				13.351
(viii)	EAST DELHI WASTE PROCESSING CO.LTD.				2.073
(ix)	Delhi Municipality Solid Waste Ltd.				9.467
O	TOTAL AVAILABILITY WITHIN DELHI (TOTAL i to ix)				768.262
	AVAILABILITY FROM RENEWABLE SOURCES				
(i)	RENEWABLE SOLAR (NDPL)				0.166515
(ii)	RENEWABLE SOLAR (BRPL)				0.0312915
(iii)	RENEWABLE SOLAR (BYPL)				0.0275224
(iv)	RENEWABLE SOLAR (NDMC)				0.00000
(v)	NON SOLAR (BYPL)				0.00000
(vi)	NON SOLAR (BRPL)				0.00000
P	TOTAL SOLAR ENERGY (TOTAL i to vi)				0.225
Q	TOTAL AVAILABILITY WITHIN DELHI (O + P)				768.487
R	GROSS CONSUMPTION OF DELHI (M + N + Q)				3493.826
S	AUXILIARY CONSUMPTION DELHI GENCOS				21.325
T	NET CONSUMPTION OF DELHI (R - S)				3472.501
U	LOAD SHEDDING				2.439
V	TOTAL REQUIREMENT (T + U)				3474.940

9.5 Power supply position during the month of August 2017

All figures in MUs

S. no.	SOURCE	Availability at Power Plant bus	Availability at Delhi periphery	Power Scheduled at Power Plant	Power scheduled at Delhi periphery
	NTPC STATIONS				
1	SINGRAULI	94.439	92.392	81.820	80.047
2	SINGRAULI (HYDRO)	0.000	0.000	0.000	0.000
3	RIHAND-I	44.940	43.967	40.700	39.818
4	RIHAND-II	86.845	84.964	82.090	80.312
5	RIHAND-III	87.239	85.343	76.887	75.215
6	UNCHAHAR-I	16.271	15.919	10.288	10.065
7	UNCHAHAR-II	31.880	31.190	20.750	20.300
8	UNCHAHAR-III	19.723	19.297	13.154	12.868
9	UNCHAHAR-IV	0.000	0.000	0.000	0.000
10	DADRI (TH)-I	394.574	386.036	166.236	162.641
11	DADRI(TH)--II	451.940	442.126	322.410	315.421
12	FARAKKA	12.436	12.167	6.265	6.129
13	KAHALGAON-I	33.052	32.336	17.517	17.136
14	KAHALGAON-II	110.336	107.948	73.864	72.261
15	ANTA (GT)	4.000	3.912	0.709	0.693
16	ANTA (Liquid)	0.000	0.000	0.000	0.000
17	ANTA (RLNG)	26.541	25.968	0.000	0.000
18	AURAIYA (GT)	0.000	0.000	0.000	0.000
19	AURAIYA (Liquid)	0.000	0.000	0.000	0.000
20	AURAIYA (RLNG)	49.513	48.441	0.000	0.000
21	DADRI (GT)	14.573	14.257	2.692	2.633
22	DADRI (Liquid)	0.000	0.000	0.000	0.000
23	DADRI (RLNG)	47.936	46.898	0.085	0.083
24	TALCHER	0.000	0.000	0.000	0.000
25	TALA	22.687	22.196	22.687	22.196
A.	TOTAL NTPC STATIONS (TOTAL 1-25)	1548.925	1515.357	938.153	917.820
26	TANAKPUR	7.772	7.604	7.772	7.604
27	CHAMERA-I	27.239	26.652	27.239	26.652
28	CHAMERA-II	28.576	27.958	28.576	27.958
29	CHAMERA-III	20.335	19.896	20.335	19.896
30	BAIRA SUIL	8.674	8.487	8.674	8.487
31	SALAL	56.162	54.947	56.162	54.947
32	DAULI GANGA	26.508	25.935	26.508	25.935
33	DULASTI	34.913	34.157	34.913	34.157
34	URI-I	30.237	29.586	30.237	29.586
35	URI-II	19.318	18.901	19.300	18.884
36	SEWA -II	7.395	7.236	7.395	7.236
37	PARBATI-III	18.383	17.987	18.383	17.987
B	TOTAL NHPC STATIONS (TOTAL 26 - 37)	285.513	279.344	285.494	279.328
38	NAPP	28.666	28.043	28.666	28.043
39	RAPP 'B'	0.000	0.000	0.000	0.000
40	RAPP 'C'	39.190	38.342	39.190	38.342
C	TOTAL NPC STATIONS (TOTAL 38-40)	67.856	66.385	67.856	66.385
41	TEHRI	32.027	31.340	32.027	31.340
42	KOTESHWAR	18.618	18.218	18.618	18.218

S. no.	SOURCE	Availability at Power Plant bus	Availability at Delhi periphery	Power Scheduled at Power Plant	Power scheduled at Delhi periphery
D	Total THDC STATIONS (TOTAL 41-42)	50.646	49.558	50.646	49.558
E	NATHPA JHAKHRI(SJVNL)	96.552	94.462	72.027	70.468
F	JHAJJAR	291.518	285.208	179.237	175.351
G	SASAN	246.476	241.140	239.827	234.634
H	TOTAL CENTRAL SECTOR (A+B+C+D+E+F+G)	2587.485	2531.454	1833.241	1793.544
	LTA				
(I)	DVC	222.057	220.126	220.126	215.355
(ii)	MAITHON	145.450	144.182	144.182	141.050
(iii)	DVC MEJIA	67.572	66.982	66.982	65.533
(iv)	RASJASTHAN (SOLAR) BRPL	3.496	3.452	3.452	3.378
(v)	RASJASTHAN (SOLAR) BYPL	3.424	3.381	3.381	3.308
(vi)	RASJASTHAN (SOLAR) TPDDL	3.342	3.301	3.301	3.229
(vii)	CLP JHAJJAR	53.303	53.019	53.019	51.872
I	TOTAL LTA (TOTAL i TO vii)	498.644	494.443	494.443	483.725
	BILATERAL IMPORT				
(I)	ASSAM	11.217	11.148	11.148	10.907
(ii)	ANDHRA PRADESH	49.199	48.772	48.772	47.705
(iii)	MEGHALAYA	40.086	39.657	39.657	38.796
(iv)	MADHYA PRADESH	12.073	11.965	11.965	11.710
(v)	URS	1.649	1.615	1.649	1.615
(vi)	MAHARASHTRA	22.437	22.087	22.087	21.610
(vii)	MANIPUR	1.009	0.999	0.999	0.977
(viii)	RAJASTHAN	0.282	0.278	0.278	0.272
(ix)	CHATTISHGARH	5.610	5.505	5.505	5.386
(x)	UTTRANCHAL	0.287	0.283	0.283	0.277
(xi)	JHARKHAND	10.250	10.190	10.190	9.969
(xii)	ORISSA	13.473	13.360	13.360	13.085
(xiii)	HIMACHAL PRADESH	272.919	269.513	269.513	263.686
(xiv)	JAMMU & KASHMIR	120.764	120.119	120.119	117.519
(xv)	GOA	8.989	8.913	8.913	8.720
(xvi)	POWER EXCHANGE(IEX)	38.653	37.820	38.653	37.820
(xvii)	POWER EXCHANGE (PX)	0.000	0.000	0.000	0.000
J	BILATERAL IMPORT (TOTAL (i to xvii)	608.898	602.224	603.092	590.054
K	NET IMPORT (H + I + J)	3695.027	3628.122	2930.777	2867.324
	EXPORT				
(I)	UTTAR PRADESH	-5.950	-6.094	-6.094	-6.229
(ii)	TRIPURA	-2.149	-2.162	-2.162	-2.211
(iii)	HIMACHAL PRADESH	-2.669	-2.704	-2.704	-2.765
(iv)	HARYANA	-1.624	-1.652	-1.652	-1.688
(v)	TO POWER EXCHANGE (IEX)	-137.644	-140.707	-137.644	-140.707
(vi)	TO POWER EXCHANGE (PX)	0.000	0.000	0.000	0.000
(vii)	TO SHARE PROJECT (HARYANA)	-29.799	-30.458	-29.799	-30.458
(viii)	TO POWER EXCHANGE (PUNJAB)	-29.799	-30.458	-29.799	-30.458
L	TOTAL EXPORT (TOTAL I to)	-209.633	-214.237	-209.854	-214.517
M	NET DRAWAL OF DELHI (K + L)	3485.394	3413.885	2720.922	2652.807
N	OVER DRAWL(+)/UNDER DRAWAL(-) FROM THE GRID				16.187
	AVAILABILITY FROM OWN SOURCES				
(i)	RAJGHAT				0.000
(ii)	GAS TURBINE				41.223
(iii)	PRAGATI				187.271

S. no.	SOURCE	Availability at Power Plant bus	Availability at Delhi periphery	Power Scheduled at Power Plant	Power scheduled at Delhi periphery
(iv)	RITHALA				0.000
(v)	BAWANA				332.632
(vi)	BTPS				239.858
(vii)	Timarpur - Okhla Waste Management				13.170
(viii)	EAST DELHI WASTE PROCESSING CO.LTD.				1.925
(ix)	Delhi Municipality Solid Waste Ltd.				10.232
O	TOTAL AVAILABILITY WITHIN DELHI (TOTAL i to ix)				826.311
	AVAILABILITY FROM RENEWABLE SOURCES				
(i)	RENEWABLE SOLAR (NDPL)				0.156145
(ii)	RENEWABLE SOLAR (BRPL)				0.034
(iii)	RENEWABLE SOLAR (BYPL)				0.026344
(iv)	RENEWABLE SOLAR (NDMC)				0.00000
(v)	NON SOLAR (BYPL)				0.00000
(vi)	NON SOLAR (BRPL)				0.00000
P	TOTAL SOLAR ENERGY (TOTAL i to vi)				0.217
Q	TOTAL AVAILABILITY WITHIN DELHI (O + P)				826.528
R	GROSS CONSUMPTION OF DELHI (M + N + Q)				3495.522
S	AUXILIARY CONSUMPTION DELHI GENCOS				23.859
T	NET CONSUMPTION OF DELHI (R - S)				3471.663
U	LOAD SHEDDING				2.402
V	TOTAL REQUIREMENT (T + U)				3474.065

9.6 Power supply position during the month of September 2017

All figures in MUs

S. no.	SOURCE	Availability at Power Plant bus	Availability at Delhi periphery	Power Scheduled at Power Plant	Power scheduled at Delhi periphery
	NTPC STATIONS				
1	SINGRAULI	93.335	91.272	77.650	75.930
2	SINGRAULI (HYDRO)	0.000	0.000	0.000	0.000
3	RIHAND-I	66.353	64.887	60.321	58.988
4	RIHAND-II	72.986	71.375	68.436	66.927
5	RIHAND-III	89.096	87.128	74.080	72.442
6	UNCHAHAR-I	15.743	15.395	11.106	10.860
7	UNCHAHAR-II	30.846	30.165	22.013	21.527
8	UNCHAHAR-III	19.076	18.654	13.600	13.300
9	UNCHAHAR-IV	0.285	0.278	0.285	0.278
10	DADRI (TH)-I	309.806	302.932	200.054	195.630
11	DADRI(TH)--II	357.623	349.712	319.208	312.160
12	FARAKKA	12.366	12.093	7.807	7.634
13	KAHALGAON-I	31.570	30.873	21.709	21.230
14	KAHALGAON-II	72.695	71.093	54.555	53.352
15	ANTA (GT)	0.497	0.485	0.022	0.022
16	ANTA (Liquid)	18.692	18.280	0.007	0.007
17	ANTA (RLNG)	7.946	7.769	0.000	0.000
18	AURAIYA (GT)	0.007	0.007	0.007	0.007
19	AURAIYA (Liquid)	15.654	15.312	0.007	0.006
20	AURAIYA (RLNG)	22.868	22.357	0.004	0.004
21	DADRI (GT)	10.616	10.382	4.167	4.074
22	DADRI (Liquid)	20.151	19.706	0.009	0.009

S. no.	SOURCE	Availability at Power Plant bus	Availability at Delhi periphery	Power Scheduled at Power Plant	Power scheduled at Delhi periphery
23	DADRI (RLNG)	24.404	23.863	0.000	0.000
24	TALCHER	0.000	0.000	0.000	0.000
25	TALA	19.205	18.781	19.247	18.822
A.	TOTAL NTPC STATIONS (TOTAL 1-25)	1311.820	1282.799	954.297	933.210
26	TANAKPUR	8.121	7.942	8.121	7.942
27	CHAMERA-I	16.034	15.680	16.034	15.680
28	CHAMERA-II	20.208	19.762	20.208	19.762
29	CHAMERA-III	13.718	13.415	13.718	13.415
30	BAIRA SUIL	4.584	4.482	4.584	4.482
31	SALAL	39.247	38.381	39.247	38.381
32	DAULI GANGA	19.825	19.386	19.825	19.386
33	DULASTI	34.614	33.850	34.614	33.850
34	URI-I	17.754	17.363	17.754	17.363
35	URI-II	12.542	12.265	12.551	12.274
36	SEWA -II	3.407	3.333	3.407	3.333
37	PARBATI-III	9.337	9.131	9.337	9.131
B	TOTAL NHPC STATIONS (TOTAL 26 - 37)	199.389	194.990	199.397	194.999
38	NAPP	24.295	23.755	24.295	23.755
39	RAPP 'B'	0.000	0.000	0.000	0.000
40	RAPP 'C'	38.534	37.683	38.534	37.683
C	TOTAL NPC STATIONS (TOTAL 38-40)	62.830	61.438	62.830	61.438
41	TEHRI	19.223	18.797	19.223	18.797
42	KOTESHWAR	10.256	10.029	10.256	10.029
D	Total THDC STATIONS (TOTAL 41-42)	29.479	28.827	29.479	28.827
E	NATHPA JHAKHRI(SJVNL)	74.001	72.367	55.204	53.985
F	JHAJJAR	297.584	291.006	178.262	174.308
G	SASAN	272.297	266.283	265.760	259.886
H	TOTAL CENTRAL SECTOR (A+B+C+D+E+F+G)	2247.401	2197.710	1745.230	1706.653
	LTA				
(I)	DVC	215.388	213.220	213.220	208.508
(ii)	MAITHON	190.976	189.530	189.530	185.337
(iii)	DVC MEJIA	65.589	64.928	64.928	63.490
(iv)	RASJASTHAN (SOLAR) BRPL	3.496	3.443	3.443	3.367
(v)	RASJASTHAN (SOLAR) BYPL	3.245	3.196	3.196	3.125
(vi)	RASJASTHAN (SOLAR) TPDDL	3.171	3.123	3.123	3.054
(vii)	CLP JHAJJAR	48.344	47.851	47.851	46.793
I	TOTAL LTA (TOTAL i TO vii)	530.208	525.290	525.290	513.674
	BILATERAL IMPORT				
(I)	SIKKIM	2.485	2.460	2.460	2.406
(ii)	ASSAM	2.297	2.277	2.277	2.226
(iii)	ANDHRA PRADESH	3.921	3.892	3.892	3.808
(iv)	MEGHALAYA	61.282	60.748	60.748	59.408
(v)	WEST BENGAL	0.087	0.086	0.086	0.084
(vi)	MADHYA PRADESH	14.099	13.941	13.941	13.635
(vii)	URS	0.455	0.446	0.455	0.446
(viii)	KERALA	0.246	0.244	0.244	0.238
(ix)	MANIPUR	3.808	3.776	3.776	3.696
(x)	UTTRANCHAL	0.103	0.101	0.101	0.099
(xi)	JHARKHAND	3.809	3.790	3.790	3.707
(xii)	ORISSA	0.499	0.496	0.496	0.485

S. no.	SOURCE	Availability at Power Plant bus	Availability at Delhi periphery	Power Scheduled at Power Plant	Power scheduled at Delhi periphery
(xiii)	HIMACHAL PRADESH	155.325	152.987	152.987	149.626
(xiv)	JAMMU & KASHMIR	142.116	140.674	140.674	137.565
(xv)	KARNATAKA	0.698	0.692	0.692	0.677
(xvi)	TAMILNAIDU	0.263	0.261	0.261	0.255
(xvii)	GOA	9.984	9.909	9.909	9.691
(xviii)	POWER EXCHANGE(IEX)	49.125	48.055	49.125	48.055
(xix)	POWER EXCHANGE (PX)	0.000	0.000	0.000	0.000
J	BILATERAL IMPORT (TOTAL (i to xix)	450.600	444.834	445.914	436.108
K	NET IMPORT (H + I + J)	3228.208	3167.834	2716.433	2656.434
	EXPORT				
(I)	UTTAR PRADESH	-46.114	-46.942	-46.942	-48.006
(ii)	ANDHRA PRADESH	-8.648	-8.738	-8.738	-8.941
(iii)	KERALA	-1.051	-1.070	-1.070	-1.096
(iv)	JHARKHAND	0.000	0.000	0.000	0.000
(v)	TRIPURA	-0.979	-0.983	-0.983	-1.005
(vi)	HIMACHAL PRADESH	-5.213	-5.293	-5.293	-5.413
(vii)	HARYANA	-25.038	-25.481	-25.481	-26.047
(viii)	TO POWER EXCHANGE (IEX)	-143.914	-147.182	-143.914	-147.182
(ix)	TO POWER EXCHANGE (PX)	0.000	0.000	0.000	0.000
(x)	TO SHARE PROJECT (HARYANA)	-20.231	-20.684	-20.231	-20.684
(xi)	TO POWER EXCHANGE (PUNJAB)	-19.914	-20.359	-19.914	-20.359
L	TOTAL EXPORT (TOTAL I to xi)	-271.100	-276.733	-272.566	-278.734
M	NET DRAWAL OF DELHI (K + L)	2957.108	2891.101	2443.867	2377.701
N	OVER DRAWAL(+)/UNDER DRAWAL(-) FROM THE GRID				2.355
	AVAILABILITY FROM OWN SOURCES				
(i)	RAJGHAT				0.000
(ii)	GAS TURBINE				81.090
(iii)	PRAGATI				193.271
(iv)	RITHALA				0.000
(v)	BAWANA				263.870
(vi)	BTPS				211.646
(vii)	Timarpur - Okhla Waste Management				13.054
(viii)	EAST DELHI WASTE PROCESSING CO.LTD.				1.582
(ix)	Delhi Municipality Solid Waste Ltd.				8.517
O	TOTAL AVAILABILITY WITHIN DELHI (TOTAL i to ix)				773.030
	AVAILABILITY FROM RENEWABLE SOURCES				
(i)	RENEWABLE SOLAR (NDPL)				0.158107
(ii)	RENEWABLE SOLAR (BRPL)				0.074
(iii)	RENEWABLE SOLAR (BYPL)				0.027838
(iv)	RENEWABLE SOLAR (NDMC)				0.00000
(v)	NON SOLAR (BYPL)				0.00000
(vi)	NON SOLAR (BRPL)				0.00000
P	TOTAL SOLAR ENERGY (TOTAL i to vi)				0.260
Q	TOTAL AVAILABILITY WITHIN DELHI (O + P)				773.290
R	GROSS CONSUMPTION OF DELHI (M + N + Q)				3153.345
S	AUXILIARY CONSUMPTION DELHI GENCOS				21.727
T	NET CONSUMPTION OF DELHI (R - S)				3131.618
U	LOAD SHEDDING				1.923
V	TOTAL REQUIREMENT (T + U)				3133.541

9.7 Power supply position during the month of October 2017

All figures in MUs

S. no.	SOURCE	Availability at Power Plant bus	Availability at Delhi periphery	Power Scheduled at Power Plant	Power scheduled at Delhi periphery
	NTPC STATIONS				
1	SINGRAULI	92.910	90.430	83.319	81.101
2	SINGRAULI (HYDRO)	0.000	0.000	0.000	0.000
3	RIHAND-I	67.341	65.536	62.472	60.803
4	RIHAND-II	88.353	85.987	83.602	81.371
5	RIHAND-III	92.497	90.020	80.413	78.271
6	UNCHAHAR-I	9.583	9.329	7.482	7.284
7	UNCHAHAR-II	26.772	26.053	21.505	20.930
8	UNCHAHAR-III	18.988	18.479	15.048	14.646
9	UNCHAHAR-IV	15.765	15.340	11.126	10.835
10	DADRI (TH)-I	377.617	367.422	227.639	221.549
11	DADRI(TH)--II	377.047	366.872	326.817	318.032
12	FARAKKA	11.002	10.708	7.810	7.602
13	KAHALGAON-I	31.216	30.385	24.798	24.141
14	KAHALGAON-II	97.674	95.050	80.030	77.889
15	ANTA (GT)	0.012	0.012	0.000	0.000
16	ANTA (Liquid)	27.451	26.715	0.004	0.004
17	ANTA (RLNG)	0.910	0.886	0.010	0.010
18	AURAIYA (GT)	0.000	0.000	0.000	0.000
19	AURAIYA (Liquid)	27.452	26.727	0.019	0.019
20	AURAIYA (RLNG)	14.534	14.133	0.000	0.000
21	DADRI (GT)	12.971	12.622	7.870	7.655
22	DADRI (Liquid)	25.084	24.421	0.003	0.003
23	DADRI (RLNG)	21.621	21.026	0.000	0.000
24	TALCHER	0.000	0.000	0.000	0.000
25	TALA	12.724	12.389	12.724	12.389
A.	TOTAL NTPC STATIONS (TOTAL 1-25)	1449.526	1410.541	1052.691	1024.533
26	TANAKPUR	6.462	6.291	6.462	6.291
27	CHAMERA-I	7.816	7.610	7.816	7.610
28	CHAMERA-II	10.949	10.659	10.949	10.659
29	CHAMERA-III	7.262	7.070	7.262	7.070
30	BAIRA SUIL	2.311	2.250	2.311	2.250
31	SALAL	19.798	19.277	19.798	19.277
32	DAULI GANGA	12.030	11.712	12.030	11.712
33	DULASTI	29.202	28.431	29.125	28.356
34	URI-I	7.029	6.842	7.029	6.842
35	URI-II	5.813	5.657	5.820	5.665
36	SEWA -II	1.475	1.436	1.475	1.436
37	PARBATI-III	4.511	4.392	4.511	4.392
B	TOTAL NHPC STATIONS (TOTAL 26 - 37)	114.659	111.627	114.589	111.560
38	NAPP	31.425	30.581	31.425	30.581
39	RAPP 'B'	0.000	0.000	0.000	0.000
40	RAPP 'C'	39.924	38.855	39.924	38.855
C	TOTAL NPC STATIONS (TOTAL 38-40)	71.349	69.436	71.349	69.436
41	TEHRI	13.882	13.512	13.882	13.512
42	KOTESHWAR	7.267	7.074	7.267	7.074
D	Total THDC STATIONS (TOTAL 41-42)	21.150	20.586	21.150	20.586

S. no.	SOURCE	Availability at Power Plant bus	Availability at Delhi periphery	Power Scheduled at Power Plant	Power scheduled at Delhi periphery
E	NATHPA JHAKHRI(SJVNL)	42.795	41.659	31.925	31.078
F	JHAJJAR	293.757	285.864	203.915	198.449
G	SASAN	274.315	266.917	270.828	263.529
H	TOTAL CENTRAL SECTOR (A+B+C+D+E+F+G)	2267.551	2206.630	1766.447	1719.170
	LTA				
(I)	DVC	217.924	215.622	215.622	209.851
(ii)	MAITHON	168.706	167.339	167.339	162.885
(iii)	DVC MEJIA	49.859	49.338	49.338	47.988
(iv)	RASJASTHAN (SOLAR) BRPL	3.938	3.869	3.869	3.765
(v)	RASJASTHAN (SOLAR) BYPL	3.823	3.756	3.756	3.655
(vi)	RASJASTHAN (SOLAR) TPDDL	3.712	3.646	3.646	3.549
(vii)	CLP JHAJJAR	52.145	51.475	51.475	50.091
I	TOTAL LTA (TOTAL i TO vii)	500.107	495.046	495.046	481.784
	BILATERAL IMPORT				
(I)	SIKKIM	0.219	0.217	0.217	0.211
(ii)	TRIPURA	3.366	3.343	3.343	3.256
(iii)	MEGHALAYA	9.648	9.554	9.554	9.315
(iv)	WEST BENGAL	1.476	1.465	1.465	1.427
(v)	CHATTISHGARH	0.501	0.492	0.492	0.480
(vi)	ORISSA	2.177	2.160	2.160	2.106
(vii)	HIMACHAL PRADESH	9.911	9.740	9.740	9.485
(viii)	JAMMU & KASHMIR	1.475	1.456	1.456	1.417
(ix)	KARNATAKA	0.051	0.051	0.051	0.049
(x)	POWER EXCHANGE(IEX)	35.345	34.416	35.345	34.416
(xi)	POWER EXCHANGE (PX)	0.000	0.000	0.000	0.000
J	BILATERAL IMPORT (TOTAL (i to xi)	64.170	62.892	63.821	62.162
K	NET IMPORT (H + I + J)	2831.829	2764.568	2325.313	2263.116
	EXPORT				
(I)	GOA	-9.986	-10.240	-10.240	-10.521
(ii)	UTTAR PRADESH	-1.538	-1.571	-1.571	-1.614
(iii)	BIHAR	-5.254	-5.322	-5.322	-5.480
(iv)	ANDHRA PRADESH	-5.661	-5.722	-5.722	-5.910
(v)	KERALA	-0.404	-0.412	-0.412	-0.423
(vi)	HIMACHAL PRADESH	-27.988	-28.528	-28.528	-29.368
(vii)	MADHYA PRADESH	-67.259	-68.269	-68.269	-70.142
(viii)	TO POWER EXCHANGE (IEX)	-97.033	-99.776	-97.033	-99.776
(ix)	TO POWER EXCHANGE (PX)	0.000	0.000	0.000	0.000
(x)	TO SHARE PROJECT (HARYANA)	-20.057	-20.607	-20.057	-20.607
(xi)	TO POWER EXCHANGE (PUNJAB)	-19.970	-20.518	-19.970	-20.518
L	TOTAL EXPORT (TOTAL I to)	-255.151	-260.966	-257.126	-264.360
M	NET DRAWAL OF DELHI (K + L)	2576.677	2503.602	2068.187	1998.756
N	OVER DRAWAL(+)/UNDER DRAWAL(-) FROM THE GRID				-9.314
	AVAILABILITY FROM OWN SOURCES				
(i)	RAJGHAT				0.000
(ii)	GAS TURBINE				60.522
(iii)	PRAGATI				203.391
(iv)	RITHALA				0.000
(v)	BAWANA				264.481
(vi)	BTPS				111.728

S. no.	SOURCE	Availability at Power Plant bus	Availability at Delhi periphery	Power Scheduled at Power Plant	Power scheduled at Delhi periphery
(vii)	Timarpur - Okhla Waste Management				14.955
(viii)	EAST DELHI WASTE PROCESSING CO.LTD.				2.539
(ix)	Delhi Municipality Solid Waste Ltd.				11.781
O	TOTAL AVAILABILITY WITHIN DELHI (TOTAL i to ix)				669.397
	AVAILABILITY FROM RENEWABLE SOURCES				
(i)	RENEWABLE SOLAR (NDPL)				0.179663
(ii)	RENEWABLE SOLAR (BRPL)				0.043
(iii)	RENEWABLE SOLAR (BYPL)				0.0226072
(iv)	RENEWABLE SOLAR (NDMC)				0.00000
(v)	NON SOLAR (BYPL)				0.00000
(vi)	NON SOLAR (BRPL)				0.00000
P	TOTAL SOLAR ENERGY (TOTAL i to vi)				0.245
Q	TOTAL AVAILABILITY WITHIN DELHI (O + P)				669.642
R	GROSS CONSUMPTION OF DELHI (M + N + Q)				2659.084
S	AUXILIARY CONSUMPTION DELHI GENCOS				21.704
T	NET CONSUMPTION OF DELHI (R - S)				2637.380
U	LOAD SHEDDING				1.001
V	TOTAL REQUIREMENT (T + U)				2638.381

9.8 Power supply position during the month of November 2017

All figures in MUs

S. no.	SOURCE	Availability at Power Plant bus	Availability at Delhi periphery	Power Scheduled at Power Plant	Power scheduled at Delhi periphery
	NTPC STATIONS				
1	SINGRAULI	76.860	74.065	71.500	68.903
2	SINGRAULI (HYDRO)	0.000	0.000	0.000	0.000
3	RIHAND-I	65.661	63.179	58.470	56.276
4	RIHAND-II	84.859	81.652	76.992	74.108
5	RIHAND-III	89.516	86.132	74.329	71.547
6	UNCHAHAR-I	7.191	6.917	5.974	5.747
7	UNCHAHAR-II	28.376	27.312	23.680	22.794
8	UNCHAHAR-III	18.720	18.012	15.521	14.934
9	UNCHAHAR-IV	0.325	0.313	0.010	0.010
10	DADRI (TH)-I	498.053	479.226	197.105	189.824
11	DADRI(TH)--II	498.210	479.377	401.258	386.140
12	FARAKKA	13.138	12.643	8.896	8.565
13	KAHALGAON-I	27.377	26.366	19.965	19.234
14	KAHALGAON-II	105.763	101.762	84.233	81.068
15	ANTA (GT)	0.018	0.018	0.000	0.000
16	ANTA (Liquid)	30.584	29.426	0.023	0.022
17	ANTA (RLNG)	0.000	0.000	0.000	0.000
18	AURAIYA (GT)	0.000	0.000	0.000	0.000
19	AURAIYA (Liquid)	24.749	23.811	0.019	0.019
20	AURAIYA (RLNG)	24.638	23.707	0.000	0.000
21	DADRI (GT)	14.031	13.496	7.151	6.876
22	DADRI (Liquid)	17.609	16.945	0.003	0.003
23	DADRI (RLNG)	31.536	30.344	0.000	0.000
24	TALCHER	0.000	0.000	0.000	0.000
25	TALA	5.411	5.211	5.411	5.211

S. no.	SOURCE	Availability at Power Plant bus	Availability at Delhi periphery	Power Scheduled at Power Plant	Power scheduled at Delhi periphery
A.	TOTAL NTPC STATIONS (TOTAL 1-25)	1662.624	1599.914	1050.542	1011.281
26	TANAKPUR	3.137	3.024	3.137	3.024
27	CHAMERA-I	3.918	3.770	3.918	3.770
28	CHAMERA-II	6.083	5.858	6.083	5.858
29	CHAMERA-III	3.618	3.484	3.618	3.484
30	BAIRA SUIL	1.504	1.448	1.504	1.448
31	SALAL	10.158	9.779	10.158	9.779
32	DAULI GANGA	6.098	5.873	6.098	5.873
33	DULASTI	15.066	14.513	15.066	14.513
34	URI-I	5.593	5.378	5.593	5.378
35	URI-II	4.814	4.628	4.809	4.625
36	SEWA -II	1.210	1.166	1.210	1.166
37	PARBATI-III	2.478	2.387	2.478	2.387
B	TOTAL NHPC STATIONS (TOTAL 26 - 37)	63.678	61.308	63.673	61.305
38	NAPP	31.202	30.021	31.169	29.990
39	RAPP 'B'	0.000	0.000	0.000	0.000
40	RAPP 'C'	38.088	36.651	38.088	36.651
C	TOTAL NPC STATIONS (TOTAL 38-40)	69.290	66.672	69.257	66.641
41	TEHRI	12.113	11.655	12.113	11.655
42	KOTESHWAR	6.528	6.282	6.528	6.282
D	Total THDC STATIONS (TOTAL 41-42)	18.641	17.937	18.641	17.937
E	NATHPA JHAKHRI(SJVNL)	27.485	26.461	20.503	19.740
F	JHAJJAR	335.185	322.507	233.764	224.923
G	SASAN	292.662	281.585	286.630	275.801
H	TOTAL CENTRAL SECTOR (A+B+C+D+E+F+G)	2469.565	2376.385	1743.011	1677.629
	LTA				
(I)	DVC	224.602	222.997	222.997	214.400
(ii)	MAITHON	86.469	85.881	85.881	82.635
(iii)	DVC MEJIA	65.063	64.600	64.600	62.125
(iv)	RASJASTHAN (SOLAR) BRPL	3.111	3.016	3.016	2.902
(v)	RASJASTHAN (SOLAR) BYPL	3.143	3.047	3.047	2.931
(vi)	RASJASTHAN (SOLAR) TPDDL	3.041	2.948	2.948	2.836
(vii)	CLP JHAJJAR	56.520	55.578	55.578	53.550
I	TOTAL LTA (TOTAL i TO vii)	441.950	438.067	438.067	421.381
	BILATERAL IMPORT				
(I)	NAGALAND	2.120	2.110	2.110	2.023
(ii)	SIKKIM	0.559	0.552	0.552	0.529
(iii)	MEGHALAYA	0.474	0.468	0.468	0.452
(iv)	HIMACHAL PRADESH	6.471	6.314	6.314	6.077
(v)	JAMMU & KASHMIR	0.763	0.750	0.750	0.722
(vi)	KARNATAKA	0.041	0.041	0.041	0.039
(vii)	POWER EXCHANGE(IEX)	17.328	16.688	17.328	16.688
(viii)	POWER EXCHANGE (PX)	0.000	0.000	0.000	0.000
J	BILATERAL IMPORT (TOTAL (i to viii)	27.756	26.922	27.563	26.530
K	NET IMPORT (H + I + J)	2939.271	2841.375	2208.641	2125.539
	EXPORT				
(I)	BIHAR	-0.195	-0.198	-0.198	-0.205
(ii)	MANIPUR	-1.600	-1.620	-1.620	-1.691
(iii)	ANDHRA PRADESH	-47.610	-48.012	-48.012	-49.956
(iv)	JAMMU & KASHMIR	-126.527	-128.747	-128.747	-133.810

S. no.	SOURCE	Availability at Power Plant bus	Availability at Delhi periphery	Power Scheduled at Power Plant	Power scheduled at Delhi periphery
(v)	TAMILNADU	-0.325	-0.329	-0.329	-0.346
(vi)	MEGHALAYA	-2.180	-2.200	-2.200	-2.306
(vii)	HIMACHAL PRADESH	-183.883	-189.267	-189.267	-196.697
(viii)	MADHYA PRADESH	-138.370	-140.860	-140.860	-146.400
(ix)	TO POWER EXCHANGE (IEX)	-110.275	-114.507	-110.275	-114.507
(x)	TO POWER EXCHANGE (PX)	-13.196	-13.718	-13.196	-13.718
(xi)	TO SHARE PROJECT (HARYANA)	-13.111	-13.631	-13.111	-13.631
(xii)	TO POWER EXCHANGE (PUNJAB)	0.000	0.000	0.000	0.000
L	TOTAL EXPORT (TOTAL I to xii)	-637.274	-653.088	-647.815	-673.266
M	NET DRAWAL OF DELHI (K + L)	2301.997	2188.286	1560.826	1452.273
N	OVER DRAWAL(+)/UNDER DRAWAL(-) FROM THE GRID				-10.573
	AVAILABILITY FROM OWN SOURCES				
(i)	RAJGHAT				0.000
(ii)	GAS TURBINE				52.107
(iii)	PRAGATI				189.249
(iv)	RITHALA				0.000
(v)	BAWANA				208.782
(vi)	BTPS				-2.359
(vii)	Timarpur - Okhla Waste Management				13.74
(viii)	EAST DELHI WASTE PROCESSING CO.LTD.				2.103
(ix)	Delhi Municipality Solid Waste Ltd.				9.022
O	TOTAL AVAILABILITY WITHIN DELHI (TOTAL i to ix)				472.644
	AVAILABILITY FROM RENEWABLE SOURCES				
(i)	RENEWABLE SOLAR (NDPL)				0.119811
(ii)	RENEWABLE SOLAR (BRPL)				0.033399
(iii)	RENEWABLE SOLAR (BYPL)				0.0126248
(iv)	RENEWABLE SOLAR (NDMC)				0.00000
(v)	NON SOLAR (BYPL)				0.00000
(vi)	NON SOLAR (BRPL)				0.00000
P	TOTAL SOLAR ENERGY (TOTAL i to vi)				0.166
Q	TOTAL AVAILABILITY WITHIN DELHI (O + P)				472.810
R	GROSS CONSUMPTION OF DELHI (M + N + Q)				1914.510
S	AUXILIARY CONSUMPTION DELHI GENCOS				17.806
T	NET CONSUMPTION OF DELHI (R - S)				1896.704
U	LOAD SHEDDING				0.560
V	TOTAL REQUIREMENT (T + U)				1897.264

9.9 Power supply position during the month of December 2017

All figures in MUs

S. no.	SOURCE	Availability at Power Plant bus	Availability at Delhi periphery	Power Scheduled at Power Plant	Power scheduled at Delhi periphery
	NTPC STATIONS				
1	SINGRAULI	80.379	77.437	66.673	64.236
2	SINGRAULI (HYDRO)	0.000	0.000	0.000	0.000
3	RIHAND-I	64.608	62.266	60.630	58.432
4	RIHAND-II	88.354	85.110	80.917	77.944
5	RIHAND-III	85.923	82.757	71.220	68.593
6	UNCHAHAR-I	14.639	14.102	12.045	11.603
7	UNCHAHAR-II	26.883	25.905	21.606	20.819
8	UNCHAHAR-III	19.731	19.006	16.018	15.429

S. no.	SOURCE	Availability at Power Plant bus	Availability at Delhi periphery	Power Scheduled at Power Plant	Power scheduled at Delhi periphery
9	UNCHA HAR-IV	0.000	0.000	0.000	0.000
10	DADRI (TH)-I	509.459	490.757	184.139	177.367
11	DADRI(TH)--II	487.518	469.628	387.145	372.945
12	FARAKKA	14.442	13.913	9.311	8.971
13	KAHALGAON-I	24.920	23.996	16.985	16.359
14	KAHALGAON-II	108.173	104.203	80.615	77.645
15	ANTA (GT)	0.000	0.000	0.000	0.000
16	ANTA (Liquid)	15.220	14.659	0.000	0.000
17	ANTA (RLNG)	16.873	16.252	0.000	0.000
18	AURAIYA (GT)	0.022	0.022	0.002	0.002
19	AURAIYA (Liquid)	11.889	11.449	0.000	0.000
20	AURAIYA (RLNG)	38.889	37.463	0.000	0.000
21	DADRI (GT)	21.387	20.601	8.175	7.877
22	DADRI (Liquid)	9.764	9.395	0.000	0.000
23	DADRI (RLNG)	35.275	33.989	0.000	0.000
24	TALCHER	0.000	0.000	0.000	0.000
25	TALA	2.800	2.698	2.800	2.698
A.	TOTAL NTPC STATIONS (TOTAL 1-25)	1677.148	1615.610	1018.280	980.920
26	TANAKPUR	2.356	2.270	2.356	2.270
27	CHAMERA-I	3.792	3.653	3.792	3.653
28	CHAMERA-II	5.221	5.031	5.221	5.031
29	CHAMERA-III	2.875	2.770	2.875	2.770
30	BAIRA SUIL	1.327	1.278	1.327	1.278
31	SALAL	9.568	9.217	9.568	9.217
32	DAULI GANGA	4.426	4.264	4.426	4.264
33	DULASTI	11.811	11.379	11.811	11.379
34	URI-I	7.408	7.140	7.408	7.140
35	URI-II	4.639	4.479	4.529	4.375
36	SEWA -II	1.882	1.815	1.882	1.815
37	PARBATI-III	1.860	1.792	1.860	1.792
B	TOTAL NHPC STATIONS (TOTAL 26 - 37)	57.166	55.086	57.056	54.983
38	NAPP	32.882	31.675	32.882	31.675
39	RAPP 'B'	0.000	0.000	0.000	0.000
40	RAPP 'C'	38.918	37.488	38.918	37.488
C	TOTAL NPC STATIONS (TOTAL 38-40)	71.800	69.163	71.800	69.163
41	TEHRI	15.441	14.869	15.437	14.866
42	KOTESHWAR	8.395	8.084	8.395	8.084
D	Total THDC STATIONS (TOTAL 41-42)	23.836	22.954	23.832	22.950
E	NATHPA JHAKHRI(SJVNL)	22.180	21.367	16.546	15.940
F	JHAJJAR	412.699	397.564	268.783	258.974
G	SASAN	286.756	276.181	278.551	268.266
H	TOTAL CENTRAL SECTOR (A+B+C+D+E+F+G)	2551.584	2457.926	1734.849	1671.196
	LTA				
(I)	DVC	236.498	234.820	234.820	226.221
(ii)	MAITHON	94.734	94.051	94.051	90.503
(iii)	DVC MEJIA	66.730	66.257	66.257	63.821
(iv)	RASJASTHAN (SOLAR) BRPL	3.038	2.942	2.942	2.833
(v)	RASJASTHAN (SOLAR) BYPL	3.106	3.008	3.008	2.897
(vi)	RASJASTHAN (SOLAR) TPDDL	3.027	2.932	2.932	2.823
(vii)	CLP JHAJJAR	68.857	67.738	67.738	65.243

S. no.	SOURCE	Availability at Power Plant bus	Availability at Delhi periphery	Power Scheduled at Power Plant	Power scheduled at Delhi periphery
I	TOTAL LTA (TOTAL i TO vii)	475.991	471.747	471.747	454.340
	BILATERAL IMPORT				
(I)	NAGALAND	2.105	2.095	2.095	2.018
(ii)	SIKKIM	3.162	3.116	3.116	3.002
(iii)	ANDHRA PRADESH	0.755	0.750	0.750	0.723
(iv)	MEGHALAYA	1.735	1.718	1.718	1.654
(v)	UTTAR PRADESH	3.056	2.969	2.969	2.860
(vi)	MAHARASHTRA	0.231	0.228	0.228	0.220
(vii)	CHATTISHGARH	0.031	0.031	0.031	0.030
(viii)	HIMACHAL PRADESH	6.679	6.521	6.521	6.282
(ix)	JAMMU & KASHMIR	0.679	0.669	0.669	0.644
(x)	KARNATAKA	0.039	0.038	0.038	0.037
(xi)	POWER EXCHANGE(IEX)	58.925	56.735	58.925	56.735
(xii)	POWER EXCHANGE (PX)	0.000	0.000	0.000	0.000
J	BILATERAL IMPORT (TOTAL (i to xii))	77.399	74.869	77.060	74.204
K	NET IMPORT (H + I + J)	3104.974	3004.541	2283.655	2199.739
	EXPORT				
(I)	ASSAM	-0.173	-0.176	-0.176	-0.184
(ii)	UTTAR PRADESH	-1.816	-1.883	-1.883	-1.963
(iii)	MANIPUR	-3.561	-3.606	-3.606	-3.744
(iv)	JAMMU & KASHMIR	-197.940	-201.194	-201.194	-208.865
(v)	JHARKHAND	-4.276	-4.329	-4.329	-4.493
(vi)	TAMILNADU	-3.768	-3.810	-3.810	-3.941
(vii)	HIMACHAL PRADESH	-239.685	-246.760	-246.760	-256.169
(viii)	MADHYA PRADESH	-71.472	-72.846	-72.846	-75.623
(ix)	TO POWER EXCHANGE (IEX)	-95.022	-98.670	-95.022	-98.670
(x)	TO POWER EXCHANGE (PX)	0.000	0.000	0.000	0.000
(xi)	TO SHARE PROJECT (HARYANA)	-17.410	-18.072	-17.410	-18.072
(xii)	TO POWER EXCHANGE (PUNJAB)	-17.410	-18.072	-17.410	-18.072
L	TOTAL EXPORT (TOTAL I to xii)	-652.533	-669.417	-664.445	-689.796
M	NET DRAWAL OF DELHI (K + L)	2452.441	2335.125	1619.211	1509.943
N	OVER DRAWAL(+)/UNDER DRAWAL(-) FROM THE GRID				1.053
	AVAILABILITY FROM OWN SOURCES				
(i)	RAJGHAT				0.000
(ii)	GAS TURBINE				33.339
(iii)	PRAGATI				200.960
(iv)	RITHALA				0.000
(v)	BAWANA				217.724
(vi)	BTPS				-1.959
(vii)	Timarpur - Okhla Waste Management				12.986
(viii)	EAST DELHI WASTE PROCESSING CO.LTD.				1.464
(ix)	Delhi Municipality Solid Waste Ltd.				9.934
O	TOTAL AVAILABILITY WITHIN DELHI (TOTAL i to ix)				474.448
	AVAILABILITY FROM RENEWABLE SOURCES				
(i)	RENEWABLE SOLAR (NDPL)				0.126513
(ii)	RENEWABLE SOLAR (BRPL)				0.034
(iii)	RENEWABLE SOLAR (BYPL)				0.0151232
(iv)	RENEWABLE SOLAR (NDMC)				0.00000
(v)	NON SOLAR (BYPL)				0.00000
(vi)	NON SOLAR (BRPL)				0.00000

S. no.	SOURCE	Availability at Power Plant bus	Availability at Delhi periphery	Power Scheduled at Power Plant	Power scheduled at Delhi periphery
P	TOTAL SOLAR ENERGY (TOTAL i to vi)				0.176
Q	TOTAL AVAILABILITY WITHIN DELHI (O + P)				474.624
R	GROSS CONSUMPTION OF DELHI (M + N + Q)				1985.620
S	AUXILIARY CONSUMPTION DELHI GENCOS				18.040
T	NET CONSUMPTION OF DELHI (R - S)				1967.580
U	LOAD SHEDDING				0.587
V	TOTAL REQUIREMENT (T + U)				1968.167

9.10 Power supply position during the month of January 2018

All figures in MUs

S. no.	SOURCE	Availability at Power Plant bus	Availability at Delhi periphery	Power Scheduled at Power Plant	Power scheduled at Delhi periphery
	NTPC STATIONS				
1	SINGRAULI	91.002	86.493	76.233	72.457
2	SINGRAULI (HYDRO)	0.000	0.000	0.000	0.000
3	RIHAND-I	63.720	60.546	57.938	55.053
4	RIHAND-II	88.370	83.983	78.426	74.538
5	RIHAND-III	92.494	87.902	76.419	72.634
6	UNCHAHAR-I	15.008	14.263	12.197	11.592
7	UNCHAHAR-II	31.734	30.159	25.145	23.897
8	UNCHAHAR-III	19.731	18.751	15.797	15.013
9	UNCHAHAR-IV	0.000	0.000	0.000	0.000
10	DADRI (TH)-I	500.867	475.949	317.350	301.497
11	DADRI(TH)--II	513.277	487.787	420.129	399.281
12	FARAKKA	14.130	13.425	9.014	8.564
13	KAHALGAON-I	30.842	29.311	21.171	20.121
14	KAHALGAON-II	99.362	94.424	77.539	73.687
15	ANTA (GT)	7.586	7.224	1.097	1.043
16	ANTA (Liquid)	16.254	15.420	0.003	0.003
17	ANTA (RLNG)	9.005	8.570	0.000	0.000
18	AURAIYA (GT)	7.024	6.657	0.679	0.644
19	AURAIYA (Liquid)	13.778	13.091	0.019	0.018
20	AURAIYA (RLNG)	31.410	29.870	0.000	0.000
21	DADRI (GT)	4.202	4.010	0.854	0.815
22	DADRI (Liquid)	30.908	29.356	0.000	0.000
23	DADRI (RLNG)	33.080	31.439	0.000	0.000
24	TALCHER	0.000	0.000	0.000	0.000
25	TALA	1.651	1.569	1.651	1.569
A.	TOTAL NTPC STATIONS (TOTAL 1-25)	1715.435	1630.200	1191.660	1132.425
26	TANAKPUR	1.145	1.088	1.145	1.088
27	CHAMERA-I	3.856	3.664	3.856	3.664
28	CHAMERA-II	3.963	3.767	3.963	3.767
29	CHAMERA-III	2.403	2.284	2.403	2.284
30	BAIRA SUIL	1.221	1.160	1.221	1.160
31	SALAL	6.841	6.504	6.841	6.504
32	DAULI GANGA	3.509	3.336	3.509	3.336
33	DULASTI	9.683	9.203	9.683	9.203
34	URI-I	5.921	5.628	5.921	5.628
35	URI-II	4.729	4.492	4.726	4.491
36	SEWA -II	1.505	1.431	1.505	1.431

S. no.	SOURCE	Availability at Power Plant bus	Availability at Delhi periphery	Power Scheduled at Power Plant	Power scheduled at Delhi periphery
37	PARBATI-III	1.460	1.388	1.460	1.388
B	TOTAL NHPC STATIONS (TOTAL 26 - 37)	46.236	43.945	46.234	43.944
38	NAPP	33.138	31.492	33.138	31.492
39	RAPP 'B'	0.000	0.000	0.000	0.000
40	RAPP 'C'	39.588	37.623	39.588	37.623
C	TOTAL NPC STATIONS (TOTAL 38-40)	72.726	69.116	72.726	69.116
41	TEHRI	16.950	16.110	16.950	16.110
42	KOTESHWAR	9.588	9.113	9.588	9.113
D	Total THDC STATIONS (TOTAL 41-42)	26.537	25.223	26.537	25.223
E	NATHPA JHAKHRI(SJVNL)	18.680	17.753	14.085	13.386
F	JHAJJAR	305.577	290.449	196.151	186.515
G	SASAN	304.870	289.741	297.175	282.438
H	TOTAL CENTRAL SECTOR (A+B+C+D+E+F+G)	2490.061	2366.427	1844.569	1753.046
	LTA				
(I)	DVC	237.222	234.831	234.831	223.120
(ii)	MAITHON	169.736	168.035	168.035	159.768
(iii)	DVC MEJIA	41.012	40.581	40.581	38.497
(iv)	RASJASTHAN (SOLAR) BRPL	3.487	3.352	3.352	3.186
(v)	RASJASTHAN (SOLAR) BYPL	3.527	3.391	3.391	3.222
(vi)	RASJASTHAN (SOLAR) TPDDL	3.461	3.327	3.327	3.162
(vii)	CLP JHAJJAR	62.998	61.489	61.489	58.411
I	TOTAL LTA (TOTAL i TO vii)	521.443	515.006	515.006	489.366
	BILATERAL IMPORT				
(I)	NAGALAND	2.317	2.305	2.305	2.191
(ii)	SIKKIM	3.943	3.874	3.874	3.681
(iii)	ANDHRA PRADESH	0.656	0.650	0.650	0.619
(iv)	MEGHALAYA	4.108	4.067	4.067	3.863
(v)	MADHYA PRADESH	0.208	0.205	0.205	0.195
(vi)	UTTAR PRADESH	13.296	12.815	12.815	12.179
(vii)	CHATTISHGARH	0.390	0.385	0.385	0.366
(viii)	HIMACHAL PRADESH	6.223	6.029	6.029	5.730
(ix)	JAMMU & KASHMIR	0.704	0.687	0.687	0.653
(x)	POWER EXCHANGE(IEX)	65.416	62.248	65.416	62.248
(xi)	POWER EXCHANGE (PX)	0.000	0.000	0.000	0.000
J	BILATERAL IMPORT (TOTAL (i to xi)	97.261	93.266	96.434	91.725
K	NET IMPORT (H + I + J)	3108.765	2974.699	2456.010	2334.137
	EXPORT				
(I)	UTTAR PRADESH	-0.689	-0.718	-0.718	-0.754
(ii)	SIKKIM	-12.156	-12.218	-12.218	-12.856
(iii)	JAMMU & KASHMIR	-215.655	-220.883	-220.883	-232.425
(iv)	TAMILNADU	-1.560	-1.583	-1.583	-1.664
(v)	MEGHALAYA	-3.549	-3.587	-3.587	-3.774
(vi)	HIMACHAL PRADESH	-268.905	-278.997	-278.997	-293.578
(vii)	MADHYA PRADESH	-71.117	-72.419	-72.419	-76.204
(viii)	TO POWER EXCHANGE (IEX)	-107.420	-113.146	-107.420	-113.146
(ix)	TO POWER EXCHANGE (PX)	0.000	0.000	0.000	0.000
(x)	TO SHARE PROJECT (HARYANA)	-17.113	-18.010	-17.113	-18.010
(xi)	TO POWER EXCHANGE (PUNJAB)	-17.113	-18.010	-17.113	-18.010
L	TOTAL EXPORT (TOTAL I to xi)	-715.277	-739.570	-732.051	-770.420
M	NET DRAWAL OF DELHI (K + L)	2393.487	2235.130	1723.959	1563.717

S. no.	SOURCE	Availability at Power Plant bus	Availability at Delhi periphery	Power Scheduled at Power Plant	Power scheduled at Delhi periphery
N	OVER DRAWL(+)/UNDER DRAWAL(-) FROM THE GRID				-24.916
	AVAILABILITY FROM OWN SOURCES				
(i)	RAJGHAT				0.000
(ii)	GAS TURBINE				43.439
(iii)	PRAGATI				200.000
(iv)	RITHALA				0.000
(v)	BAWANA				279.524
(vi)	BTPS				-2.087
(vii)	Timarpur - Okhla Waste Management				11.998
(viii)	EAST DELHI WASTE PROCESSING CO.LTD.				1.598
(ix)	Delhi Municipality Solid Waste Ltd.				8.357
O	TOTAL AVAILABILITY WITHIN DELHI (TOTAL i to ix)				542.829
	AVAILABILITY FROM RENEWABLE SOURCES				
(i)	RENEWABLE SOLAR (NDPL)				0.145349
(ii)	RENEWABLE SOLAR (BRPL)				0.038
(iii)	RENEWABLE SOLAR (BYPL)				0.016134
(iv)	RENEWABLE SOLAR (NDMC)				0.00000
(v)	NON SOLAR (BYPL)				0.00000
(vi)	NON SOLAR (BRPL)				0.00000
P	TOTAL SOLAR ENERGY (TOTAL i to vi)				0.199
Q	TOTAL AVAILABILITY WITHIN DELHI (O + P)				543.028
R	GROSS CONSUMPTION OF DELHI (M + N + Q)				2081.829
S	AUXILIARY CONSUMPTION DELHI GENCOS				19.386
T	NET CONSUMPTION OF DELHI (R - S)				2062.443
U	LOAD SHEDDING				1.000
V	TOTAL REQUIREMENT (T + U)				2063.443

9.11 Power supply position during the month of February 2018

All figures in MUs

S. no.	SOURCE	Availability at Power Plant bus	Availability at Delhi periphery	Power Scheduled at Power Plant	Power scheduled at Delhi periphery
	NTPC STATIONS				
1	SINGRAULI	83.750	80.411	75.080	72.104
2	SINGRAULI (HYDRO)	0.000	0.000	0.000	0.000
3	RIHAND-I	57.312	55.034	52.174	50.112
4	RIHAND-II	79.800	76.628	72.770	69.899
5	RIHAND-III	83.518	80.198	70.236	67.453
6	UNCHAHAR-I	14.283	13.714	11.249	10.801
7	UNCHAHAR-II	28.754	27.611	22.482	21.587
8	UNCHAHAR-III	17.414	16.721	13.595	13.054
9	UNCHAHAR-IV	0.000	0.000	0.000	0.000
10	DADRI (TH)-I	463.930	445.481	311.413	299.011
11	DADRI(TH)--II	244.202	234.392	195.958	188.074
12	FARAKKA	13.092	12.571	8.687	8.344
13	KAHALGAON-I	26.656	25.591	17.753	17.042
14	KAHALGAON-II	99.297	95.351	74.350	71.396
15	ANTA (GT)	0.000	0.000	0.000	0.000
16	ANTA (Liquid)	28.229	27.106	0.000	0.000
17	ANTA (RLNG)	0.412	0.394	0.000	0.000
18	AURAIYA (GT)	0.000	0.000	0.000	0.000

S. no.	SOURCE	Availability at Power Plant bus	Availability at Delhi periphery	Power Scheduled at Power Plant	Power scheduled at Delhi periphery
19	AURAIYA (Liquid)	11.859	11.388	0.000	0.000
20	AURAIYA (RLNG)	35.969	34.539	0.000	0.000
21	DADRI (GT)	14.097	13.536	3.047	2.924
22	DADRI (Liquid)	15.853	15.221	0.000	0.000
23	DADRI (RLNG)	31.285	30.042	-0.009	-0.008
24	TALCHER	0.000	0.000	0.000	0.000
25	TALA	0.871	0.836	0.871	0.836
A.	TOTAL NTPC STATIONS (TOTAL 1-25)	1350.582	1296.765	929.657	892.626
26	TANAKPUR	0.836	0.802	0.832	0.799
27	CHAMERA-I	3.587	3.444	3.587	3.444
28	CHAMERA-II	3.693	3.547	3.673	3.528
29	CHAMERA-III	2.119	2.035	2.090	2.008
30	BAIRA SUIL	1.337	1.285	1.331	1.279
31	SALAL	6.621	6.363	6.591	6.334
32	DAULI GANGA	3.107	2.984	3.107	2.984
33	DULASTI	8.019	7.700	8.019	7.700
34	URI-I	5.724	5.501	5.724	5.501
35	URI-II	4.892	4.700	4.891	4.700
36	SEWA -II	2.981	2.872	2.981	2.872
37	PARBATI-III	1.178	1.131	1.178	1.131
B	TOTAL NHPC STATIONS (TOTAL 26 - 37)	44.092	42.364	44.003	42.279
38	NAPP	29.477	28.305	29.477	28.305
39	RAPP 'B'	0.000	0.000	0.000	0.000
40	RAPP 'C'	20.492	19.654	20.492	19.654
C	TOTAL NPC STATIONS (TOTAL 38-40)	49.969	47.959	49.969	47.959
41	TEHRI	12.805	12.293	12.805	12.293
42	KOTESHWAR	7.830	7.518	7.830	7.518
D	Total THDC STATIONS (TOTAL 41-42)	20.634	19.811	20.634	19.811
E	NATHPA JHAKHRI(SJVNL)	15.777	15.149	11.770	11.302
F	JHAJJAR	364.777	349.942	226.443	217.293
G	SASAN	263.054	252.577	260.360	250.005
H	TOTAL CENTRAL SECTOR (A+B+C+D+E+F+G)	2108.886	2024.568	1542.838	1481.275
	LTA				
(I)	DVC	212.532	210.411	210.411	202.047
(ii)	MAITHON	175.330	173.579	173.579	166.713
(iii)	DVC MEJIA	58.732	58.144	58.144	55.840
(iv)	RASJASTHAN (SOLAR) BRPL	3.476	3.341	3.341	3.209
(v)	RASJASTHAN (SOLAR) BYPL	3.772	3.625	3.625	3.483
(vi)	RASJASTHAN (SOLAR) TPDDL	3.129	3.008	3.008	2.889
(vii)	CLP JHAJJAR	49.692	48.536	48.536	46.548
I	TOTAL LTA (TOTAL i TO vii)	506.663	500.644	500.644	480.729
	BILATERAL IMPORT				
(I)	SIKKIM	5.365	5.271	5.271	5.063
(ii)	ANDHRA PRADESH	0.654	0.649	0.649	0.624
(iii)	MEGHALAYA	4.196	4.155	4.155	3.991
(iv)	UTTAR PRADESH	2.892	2.792	2.792	2.668
(v)	HIMACHAL PRADESH	5.580	5.404	5.404	5.191
(vi)	JAMMU & KASHMIR	0.740	0.723	0.723	0.694
(vii)	POWER EXCHANGE(IEX)	46.234	44.393	46.234	44.393
(viii)	POWER EXCHANGE (PX)	0.000	0.000	0.000	0.000

S. no.	SOURCE	Availability at Power Plant bus	Availability at Delhi periphery	Power Scheduled at Power Plant	Power scheduled at Delhi periphery
J	BILATERAL IMPORT (TOTAL (i to viii))	65.661	63.387	65.228	62.624
K	NET IMPORT (H + I + J)	2681.211	2588.600	2108.709	2024.627
	<u>EXPORT</u>				
(I)	JAMMU & KASHMIR	-216.620	-221.902	-221.902	-231.093
(ii)	TAMILNADU	-0.389	-0.393	-0.393	-0.405
(iii)	HIMACHAL PRADESH	-236.833	-245.680	-245.680	-256.077
(iv)	MAHARASHTRA	-10.096	-10.223	-10.223	-10.647
(v)	TO POWER EXCHANGE (IEX)	-130.067	-135.500	-130.067	-135.500
(vi)	TO POWER EXCHANGE (PX)	0.000	0.000	0.000	0.000
(vii)	TO SHARE PROJECT (HARYANA)	-14.625	-15.237	-14.625	-15.237
(viii)	TO POWER EXCHANGE (PUNJAB)	-14.625	-15.237	-14.625	-15.237
L	TOTAL EXPORT (TOTAL I to viii)	-623.252	-644.172	-637.514	-664.196
M	NET DRAWAL OF DELHI (K + L)	2057.958	1944.428	1471.195	1360.431
N	OVER DRAWAL(+)/UNDER DRAWAL(-) FROM THE GRID				-28.938
	<u>AVAILABILITY FROM OWN SOURCES</u>				
(i)	RAJGHAT				0.000
(ii)	GAS TURBINE				31.476
(iii)	PRAGATI				183.184
(iv)	RITHALA				0.000
(v)	BAWANA				203.693
(vi)	BTPS				-1.722
(vii)	Timarpur - Okhla Waste Management				13.09
(viii)	EAST DELHI WASTE PROCESSING CO.LTD.				1.402
(ix)	Delhi Municipality Solid Waste Ltd.				8.679
O	TOTAL AVAILABILITY WITHIN DELHI (TOTAL i to ix)				439.802
	<u>AVAILABILITY FROM RENEWABLE SOURCES</u>				
(i)	RENEWABLE SOLAR (NDPL)				0.158639
(ii)	RENEWABLE SOLAR (BRPL)				0.047
(iii)	RENEWABLE SOLAR (BYPL)				0.0199008
(iv)	RENEWABLE SOLAR (NDMC)				0.00000
(v)	NON SOLAR (BYPL)				0.00000
(vi)	NON SOLAR (BRPL)				0.00000
P	TOTAL SOLAR ENERGY (TOTAL i to vi)				0.225
Q	TOTAL AVAILABILITY WITHIN DELHI (O + P)				440.027
R	GROSS CONSUMPTION OF DELHI (M + N + Q)				1771.520
S	AUXILIARY CONSUMPTION DELHI GENCOS				18.310
T	NET CONSUMPTION OF DELHI (R - S)				1753.210
U	LOAD SHEDDING				1.266
V	TOTAL REQUIREMENT (T + U)				1754.476

9.12 Power supply position during the month of March 2018

All figures in MUs

S. no.	SOURCE	Availability at Power Plant bus	Availability at Delhi periphery	Power Scheduled at Power Plant	Power scheduled at Delhi periphery
	NTPC STATIONS				
1	SINGRAULI	73.375	71.376	71.700	69.751
2	SINGRAULI (HYDRO)	0.410	0.400	0.410	0.400
3	RIHAND-I	47.976	46.651	45.687	44.431
4	RIHAND-II	85.389	83.135	83.098	80.910
5	RIHAND-III	92.500	90.056	83.635	81.440
6	UNCHAHAR-I	16.234	15.805	14.037	13.672
7	UNCHAHAR-II	31.819	30.979	27.680	26.960
8	UNCHAHAR-III	19.634	19.115	17.119	16.674
9	UNCHAHAR-IV	0.000	0.000	0.000	0.000
10	DADRI (TH)-I	514.655	501.058	346.409	337.318
11	DADRI(TH)--II	290.042	282.523	241.510	235.287
12	FARAKKA	10.572	10.282	8.148	7.928
13	KAHALGAON-I	25.272	24.589	19.706	19.183
14	KAHALGAON-II	108.395	105.534	92.891	90.473
15	ANTA (GT)	2.446	2.377	0.610	0.593
16	ANTA (Liquid)	24.070	23.427	0.000	0.000
17	ANTA (RLNG)	5.196	5.069	0.000	0.000
18	AURAIYA (GT)	0.000	0.000	0.000	0.000
19	AURAIYA (Liquid)	9.547	9.284	0.000	0.000
20	AURAIYA (RLNG)	29.313	28.507	0.000	0.000
21	DADRI (GT)	10.100	9.841	1.587	1.543
22	DADRI (Liquid)	20.566	20.015	0.010	0.010
23	DADRI (RLNG)	35.240	34.307	0.000	0.000
24	TALCHER	0.000	0.000	0.000	0.000
25	TALA	1.097	1.067	1.097	1.067
A.	TOTAL NTPC STATIONS (TOTAL 1-25)	1453.847	1415.398	1055.334	1027.640
26	TANAKPUR	0.287	0.279	0.287	0.279
27	CHAMERA-I	5.158	5.025	5.143	5.009
28	CHAMERA-II	5.465	5.324	5.458	5.317
29	CHAMERA-III	3.183	3.101	3.183	3.101
30	BAIRA SUIL	2.624	2.556	2.598	2.530
31	SALAL	9.444	9.190	9.423	9.170
32	DAULI GANGA	3.340	3.252	3.340	3.252
33	DULASTI	9.238	8.996	9.238	8.996
34	URI-I	18.043	17.567	18.043	17.567
35	URI-II	13.134	12.786	13.147	12.800
36	SEWA -II	4.746	4.617	4.799	4.669
37	PARBATI-III	1.313	1.279	1.313	1.279
B	TOTAL NHPC STATIONS (TOTAL 26 - 37)	75.975	73.971	75.972	73.968
38	NAPP	30.336	29.527	30.150	29.345
39	RAPP 'B'	0.000	0.000	0.000	0.000
40	RAPP 'C'	14.727	14.347	14.727	14.347
C	TOTAL NPC STATIONS (TOTAL 38-40)	45.063	43.873	44.877	43.692
41	TEHRI	13.323	12.969	13.323	12.969
42	KOTESHWAR	8.761	8.529	8.766	8.534

S. no.	SOURCE	Availability at Power Plant bus	Availability at Delhi periphery	Power Scheduled at Power Plant	Power scheduled at Delhi periphery
D	Total THDC STATIONS (TOTAL 41-42)	22.083	21.497	22.089	21.503
E	NATHPA JHAKHRI(SJVNL)	18.491	18.005	15.925	15.516
F	JHAJJAR	364.247	354.582	267.038	260.107
G	SASAN	301.325	293.352	300.766	292.810
H	TOTAL CENTRAL SECTOR (A+B+C+D+E+F+G)	2281.031	2220.679	1782.001	1735.235
	LTA				
(I)	DVC	212.858	211.217	211.217	205.493
(ii)	MAITHON	195.936	193.964	193.964	188.883
(iii)	DVC MEJIA	70.001	69.476	69.476	67.699
(iv)	RASJASTHAN (SOLAR) BRPL	4.798	4.648	4.648	4.526
(v)	RASJASTHAN (SOLAR) BYPL	5.092	4.933	4.933	4.804
(vi)	RASJASTHAN (SOLAR) TPDDL	4.482	4.342	4.342	4.229
(vii)	CLP JHAJJAR	34.685	34.276	34.276	33.338
I	TOTAL LTA (TOTAL i TO vii)	527.851	522.855	522.855	508.972
	BILATERAL IMPORT				
(I)	SIKKIM	6.155	6.063	6.063	5.903
(ii)	MEGHALAYA	6.134	6.114	6.114	5.956
(iii)	ORISSA MT-20 JITPL -DVC	0.121	0.120	0.120	0.117
(iv)	HIMACHAL PRADESH	6.050	5.937	5.937	5.780
(v)	JAMMU & KASHMIR	0.803	0.794	0.794	0.773
(vi)	POWER EXCHANGE(IEX)	30.783	30.017	30.783	30.017
(vii)	POWER EXCHANGE (PX)	0.000	0.000	0.000	0.000
J	BILATERAL IMPORT (TOTAL (i to vii)	50.047	49.044	49.811	48.546
K	NET IMPORT (H + I + J)	2858.928	2792.578	2354.666	2292.753
	EXPORT				
(I)	BIHAR	-8.180	-8.282	-8.282	-8.484
(ii)	MANIPUR	-1.357	-1.376	-1.376	-1.421
(iii)	ANDHRA PRADESH	-72.211	-73.258	-73.258	-75.247
(iv)	JAMMU & KASHMIR	-135.634	-137.525	-137.525	-141.259
(v)	TAMILNADU	-4.002	-4.058	-4.058	-4.178
(vi)	MEGHALAYA	-11.142	-11.292	-11.292	-11.599
(vii)	HIMACHAL PRADESH	-169.137	-173.796	-173.796	-178.692
(viii)	MAHARASHTRA	-11.709	-11.925	-11.925	-12.249
(ix)	TO POWER EXCHANGE (IEX)	-150.409	-154.599	-150.409	-154.599
(x)	TO POWER EXCHANGE (PX)	0.000	0.000	0.000	0.000
(xi)	TO SHARE PROJECT (HARYANA)	-15.950	-16.361	-15.950	-16.361
(xii)	TO POWER EXCHANGE (PUNJAB)	-15.949	-16.360	-15.949	-16.360
L	TOTAL EXPORT (TOTAL i to xii)	-595.682	-608.833	-603.820	-620.450
M	NET DRAWAL OF DELHI (K + L)	2263.246	2183.745	1750.846	1672.303
N	OVER DRAWL(+)/UNDER DRAWAL(-) FROM THE GRID				-13.837
	AVAILABILITY FROM OWN SOURCES				
(i)	RAJGHAT				0.000
(ii)	GAS TURBINE				44.945
(iii)	PRAGATI				96.398
(iv)	RITHALA				0.000
(v)	BAWANA				248.856
(vi)	BTPS				-1.854
(vii)	Timarpur - Okhla Waste Management				14.751
(viii)	EAST DELHI WASTE PROCESSING CO.LTD.				3.175

S. no.	SOURCE	Availability at Power Plant bus	Availability at Delhi periphery	Power Scheduled at Power Plant	Power scheduled at Delhi periphery
(ix)	Delhi Municipality Solid Waste Ltd.				4.576
O	TOTAL AVAILABILITY WITHIN DELHI (TOTAL i to ix)				410.847
	AVAILABILITY FROM RENEWABLE SOURCES				
(i)	RENEWABLE SOLAR (NDPL)				0.245421
(ii)	RENEWABLE SOLAR (BRPL)				0.05479155
(iii)	RENEWABLE SOLAR (BYPL)				0.021
(iv)	RENEWABLE SOLAR (NDMC)				0.00000
(v)	NON SOLAR (BYPL)				0.00000
(vi)	NON SOLAR (BRPL)				0.00000
P	TOTAL SOLAR ENERGY (TOTAL i to vi)				0.322
Q	TOTAL AVAILABILITY WITHIN DELHI (O + P)				411.169
R	GROSS CONSUMPTION OF DELHI (M + N + Q)				2069.635
S	AUXILIARY CONSUMPTION DELHI GENCOS				17.606
T	NET CONSUMPTION OF DELHI (R - S)				2052.029
U	LOAD SHEDDING				0.755
V	TOTAL REQUIREMENT (T + U)				2052.784

9.13 Consolidated Power Supply Position for 2017-18

All figures in MUs

S. no.	SOURCE	Availability at Power Plant bus	Availability at Delhi periphery	Power Scheduled at Power Plant	Power scheduled at Delhi periphery
	NTPC STATIONS				
1	SINGRAULI	1053.227	1021.766	930.493	902.805
2	SINGRAULI (HYDRO)	0.410	0.400	0.410	0.400
3	RIHAND-I	743.373	720.841	681.241	660.664
4	RIHAND-II	953.431	924.146	884.502	857.546
5	RIHAND-III	1029.301	998.019	890.131	863.334
6	UNCHAHAHAR-I	168.155	163.158	119.662	116.033
7	UNCHAHAHAR-II	361.670	350.842	257.727	249.875
8	UNCHAHAHAR-III	229.352	222.409	164.538	159.469
9	UNCHAHAHAR-IV	16.375	15.932	11.422	11.124
10	DADRI (TH)-I	5611.906	5440.371	2903.941	2814.855
11	DADRI(TH)--II	5243.921	5085.559	4005.257	3883.338
12	FARAKKA	152.353	147.663	93.017	90.129
13	KAHALGAON-I	352.482	341.967	229.545	222.646
14	KAHALGAON-II	1220.989	1184.085	905.829	878.319
15	ANTA (GT)	23.170	22.407	4.611	4.465
16	ANTA (Liquid)	160.500	155.033	0.037	0.036
17	ANTA (RLNG)	175.402	170.703	0.010	0.010
18	AURAIYA (GT)	16.504	15.885	6.205	6.027
19	AURAIYA (Liquid)	114.927	111.061	0.064	0.062
20	AURAIYA (RLNG)	427.997	415.282	0.004	0.004
21	DADRI (GT)	195.351	189.679	60.781	59.009
22	DADRI (Liquid)	139.936	135.058	0.026	0.025
23	DADRI (RLNG)	401.509	389.565	0.077	0.075
24	TALCHER	0.000	0.000	0.000	0.000
25	TALA	113.813	110.908	113.864	110.958
A.	TOTAL NTPC STATIONS (TOTAL 1-25)	18906.052	18332.737	12263.395	11891.208
26	TANAKPUR	46.600	45.364	46.576	45.340
27	CHAMERA-I	179.207	174.603	179.191	174.588

S. no.	SOURCE	Availability at Power Plant bus	Availability at Delhi periphery	Power Scheduled at Power Plant	Power scheduled at Delhi periphery
28	CHAMERA-II	192.556	187.558	192.528	187.530
29	CHAMERA-III	131.097	127.723	131.068	127.695
30	BAIRA SUIL	65.308	63.643	65.275	63.610
31	SALAL	358.602	349.341	358.550	349.291
32	DAULI GANGA	146.919	143.084	146.919	143.084
33	DULASTI	290.496	282.697	290.419	282.622
34	URI-I	249.510	242.976	249.495	242.962
35	URI-II	157.662	153.485	157.494	153.334
36	SEWA -II	65.825	64.105	65.879	64.156
37	PARBATI-III	88.593	86.347	88.486	86.242
B	TOTAL NHPC STATIONS (TOTAL 26 - 37)	1972.376	1920.926	1971.879	1920.454
38	NAPP	354.434	343.578	354.132	343.284
39	RAPP 'B'	0.000	0.000	0.000	0.000
40	RAPP 'C'	407.855	395.482	407.855	395.482
C	TOTAL NPC STATIONS (TOTAL 38-40)	762.289	739.060	761.988	738.765
41	TEHRI	190.576	184.996	190.471	184.894
42	KOTESHWAR	118.089	114.666	118.011	114.591
D	Total THDC STATIONS (TOTAL 41-42)	308.665	299.662	308.482	299.485
E	NATHPA JHAKHRI(SJVNL)	663.979	646.358	498.446	485.225
F	JHAJJAR	4369.910	4238.772	2512.158	2434.547
G	SASAN	3344.871	3243.261	3253.599	3154.721
H	TOTAL CENTRAL SECTOR (A+B+C+D+E+F+G)	30328.142	29420.775	21569.947	20924.406
	<u>LTA</u>				
(I)	DVC	2701.182	2677.755	2677.755	2596.576
(ii)	MAITHON	1876.737	1860.651	1860.651	1805.690
(iii)	DVC MEJIA	766.683	760.114	760.114	737.757
(iv)	RASJASTHAN (SOLAR) BRPL	44.193	43.164	43.164	41.887
(v)	RASJASTHAN (SOLAR) BYPL	43.917	42.879	42.879	41.602
(vi)	RASJASTHAN (SOLAR) TPDDL	41.954	40.976	40.976	39.758
(vii)	CLP JHAJJAR	565.400	557.796	557.796	540.210
I	TOTAL LTA (TOTAL i TO vii)	6040.066	5983.336	5983.336	5803.479
	BILATERAL IMPORT	0.000	0.000	0.000	0.000
(I)	NAGALAND	6.542	6.510	6.510	6.232
(ii)	SIKKIM	21.889	21.552	21.552	20.795
(iii)	ASSAM	34.642	34.414	34.414	33.574
(iv)	ANDHRA PRADESH	64.316	63.771	63.771	62.311
(v)	TRIPURA	3.366	3.343	3.343	3.256
(vi)	MEGHALAYA	208.078	205.958	205.958	200.812
(vii)	WEST BENGAL	8.476	8.406	8.406	8.186
(viii)	MADHYA PRADESH	51.009	50.498	50.498	49.276
(ix)	HARYANA	2.313	2.291	2.291	2.224
(x)	UTTAR PRADESH	19.245	18.576	18.576	17.707
(xi)	URS	19.130	18.651	19.130	18.651
(xii)	MAHARASHTRA	23.139	22.778	22.778	22.278
(xiii)	KERALA	6.393	6.326	6.326	6.167
(xiv)	MANIPUR	5.664	5.612	5.612	5.490
(xv)	RAJASTHAN	0.282	0.278	0.278	0.272
(xvi)	ORISSA MT-20 JITPL -DVC	0.121	0.120	0.120	0.117
(xvii)	CHATTISHGARH	29.973	29.420	29.420	28.683
(xviii)	UTTRANCHAL	0.570	0.562	0.562	0.549

S. no.	SOURCE	Availability at Power Plant bus	Availability at Delhi periphery	Power Scheduled at Power Plant	Power scheduled at Delhi periphery
(xix)	JHARKHAND	14.059	13.979	13.979	13.676
(xx)	ORISSA	128.593	127.536	127.536	124.277
(xxi)	PUNJAB	0.000	0.000	0.000	0.000
(xxii)	HIMACHAL PRADESH	1470.403	1448.675	1448.675	1411.880
(xxiii)	JAMMU & KASHMIR	700.835	695.285	695.285	677.837
(xxiv)	KARNATAKA	1.105	1.096	1.096	1.069
(xxv)	TAMILNAIDU	0.315	0.312	0.312	0.305
(xxvi)	GOA	26.229	26.009	26.009	25.409
(xxvii)	POWER EXCHANGE(IEX)	599.321	580.808	599.321	580.808
(xxviii)	POWER EXCHANGE (PX)	0.000	0.000	0.000	0.000
J	BILATERAL IMPORT (TOTAL (i to xxviii))	3446.007	3392.767	3411.760	3321.841
K	NET IMPORT (H + I + J)	39814.215	38796.879	30965.043	30049.725
	EXPORT	0.000	0.000	0.000	0.000
(I)	RAJASTHAN	0.000	0.000	0.000	0.000
(ii)	ASSAM	-0.173	-0.176	-0.176	-0.184
(iii)	GOA	-15.777	-16.162	-16.162	-16.562
(iv)	ORISSA	0.000	0.000	0.000	0.000
(v)	NEPAL	-17.645	-17.764	-17.764	-18.122
(vi)	UTTAR PRADESH	-80.836	-82.642	-82.642	-84.668
(vii)	BIHAR	-27.781	-28.183	-28.183	-28.840
(viii)	SIKKIM	-12.156	-12.218	-12.218	-12.856
(ix)	KARNATAKA	0.000	0.000	0.000	0.000
(x)	PUNJAB	0.000	0.000	0.000	0.000
(xi)	MANIPUR	-6.518	-6.602	-6.602	-6.856
(xii)	CHATTISHGARH	0.000	0.000	0.000	0.000
(xiii)	ANDHRA PRADESH	-201.031	-203.686	-203.686	-209.209
(xiv)	JAMMU & KASHMIR	-892.376	-910.250	-910.250	-947.452
(xv)	KERALA	-1.456	-1.482	-1.482	-1.520
(xvi)	JHARKHAND	-10.117	-10.232	-10.232	-10.554
(xvii)	TRIPURA	-3.128	-3.145	-3.145	-3.216
(xviii)	TAMILNADU	-10.422	-10.557	-10.557	-10.930
(xix)	MEGHALAYA	-16.871	-17.079	-17.079	-17.680
(xx)	HIMACHAL PRADESH	-1138.327	-1175.105	-1175.105	-1222.957
(xxi)	MAHARASHTRA	-75.018	-76.487	-76.487	-78.513
(xxii)	MADHYA PRADESH	-348.219	-354.395	-354.395	-368.368
(xxiii)	WEST BENGAL	-0.022	-0.022	-0.022	-0.023
(xxiv)	UTTRANCHAL	-6.556	-6.744	-6.744	-6.898
(xxv)	HARYANA	-26.662	-27.133	-27.133	-27.734
(xxvi)	TO POWER EXCHANGE (IEX)	-1405.570	-1449.642	-1405.570	-1449.642
(xxvii)	TO POWER EXCHANGE (PX)	-13.196	-13.718	-13.196	-13.718
(xxviii)	TO SHARE PROJECT (HARYANA)	-237.305	-244.371	-237.305	-244.371
(xxiv)	TO POWER EXCHANGE (PUNJAB)	-216.875	-223.221	-216.875	-223.221
L	TOTAL EXPORT (TOTAL i to xxiv)	-4764.035	-4891.017	-4833.010	-5004.095
M	NET DRAWAL OF DELHI (K + L)	35050.179	33905.862	26132.032	25045.630
N	OVER DRAWL(+)/UNDER DRAWAL(-) FROM THE GRID				-11.632
	AVAILABILITY FROM OWN SOURCES				
(i)	RAJGHAT				0.000
(ii)	GAS TURBINE				580.497
(iii)	PRAGATI				1955.337
(iv)	RITHALA				0.000

S. no.	SOURCE	Availability at Power Plant bus	Availability at Delhi periphery	Power Scheduled at Power Plant	Power scheduled at Delhi periphery
(v)	BAWANA				2957.455
(vi)	BTPS				1396.481
(vii)	Timarpur - Okhla Waste Management				163.049
(viii)	EAST DELHI WASTE PROCESSING CO.LTD.				23.583
(ix)	Delhi Municipality Solid Waste Ltd.				109.529
O	TOTAL AVAILABILITY WITHIN DELHI (TOTAL i to ix)				7185.931
	AVAILABILITY FROM RENEWABLE SOURCES				0.000
(i)	RENEWABLE SOLAR (NDPL)				1.978
(ii)	RENEWABLE SOLAR (BRPL)				0.539
(iii)	RENEWABLE SOLAR (BYPL)				0.280
(iv)	RENEWABLE SOLAR (NDMC)				0.000
(v)	NON SOLAR (BYPL)				0.000
(vi)	NON SOLAR (BRPL)				0.000
P	TOTAL SOLAR ENERGY (TOTAL i to vi)				2.797
Q	TOTAL AVAILABILITY WITHIN DELHI (O + P)				7188.728
R	GROSS CONSUMPTION OF DELHI (M + N + Q)				32222.727
S	AUXILIARY CONSUMPTION DELHI GENCOS				236.923
T	NET CONSUMPTION OF DELHI (R - S)				31985.804
U	LOAD SHEDDING				19.470
V	TOTAL REQUIREMENT (T + U)				32005.274

9.14 LOAD SHEDDING DETAILS FOR 2017-18

Month	Number of Under Frequency Trippings	Load shedding due to under Frequency Relay Operation in MUs				
		BYPL	BRPL	TPDDL	NDMC	Total
Apr 2017	1	0.001	0.000	0.000	0.000	0.001
May 2017	0	0.000	0.000	0.000	0.000	0.000
Jun 2017	0	0.000	0.000	0.000	0.000	0.000
July 2017	0	0.000	0.000	0.000	0.000	0.000
Aug. 2017	0	0.000	0.000	0.000	0.000	0.000
Sept 2017	1	0.000	0.019	0.000	0.000	0.019
Oct. 2017	0	0.000	0.000	0.000	0.000	0.000
Nov. 2017	0	0.000	0.000	0.000	0.000	0.000
Dec. 2017	1	0.003	0.001	0.000	0.000	0.004
Jan. 2018	0	0.000	0.000	0.000	0.000	0.000
Feb. 2018	0	0.000	0.000	0.000	0.000	0.000
Mar. 2018	0	0.000	0.000	0.000	0.000	0.000
TOTAL	3	0.004	0.020	0.000	0.000	0.024

Months	Load Shedding due to Grid Restriction in MUs								
	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 2017	0.000	0.054	0.045	0.000	0.000	0.000	0.000	0.000	0.000
May 2017	0.000	0.139	0.071	0.000	0.000	0.000	0.000	0.000	0.000
Jun 2017	0.022	0.052	0.000	0.000	0.000	0.000	0.000	0.000	0.000
July 2017	0.102	0.052	0.060	0.000	0.000	0.000	0.000	0.000	0.000
Aug. 2017	0.000	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Sept 2017	0.014	0.390	0.014	0.000	0.000	0.000	0.000	0.000	0.000
Oct. 2017	0.000	0.000	0.028	0.000	0.000	0.000	0.000	0.000	0.000
Nov. 2017	0.000	0.000	0.008	0.000	0.000	0.000	0.000	0.000	0.000
Dec. 2017	0.013	0.000	0.009	0.000	0.000	0.000	0.000	0.000	0.000
Jan. 2018	0.000	0.000	0.036	0.000	0.000	0.000	0.000	0.000	0.000
Feb. 2018	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Mar. 2018	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOTAL	0.151	0.690	0.271	0.000	0.000	0.000	0.000	0.000	0.000

Month	Load Shedding due to Transmission Constraints in Central Sector Transmission System in MUs				Total in MUs	Total Shedding due to Grid Restrictions in MUs
	BYPL	BRPL	TPDDL	NDMC		
Apr 2017	0.000	0.000	0.000	0.000	0.099	0.100
May 2017	0.000	0.000	0.000	0.000	0.210	0.210
Jun 2017	0.000	0.000	0.000	0.000	0.074	0.074
July 2017	0.000	0.000	0.000	0.000	0.214	0.214
Aug. 2017	0.000	0.000	0.000	0.000	0.003	0.003
Sept 2017	0.000	0.000	0.000	0.000	0.418	0.437
Oct. 2017	0.000	0.000	0.000	0.000	0.028	0.028
Nov. 2017	0.000	0.000	0.000	0.000	0.008	0.008
Dec. 2017	0.000	0.000	0.000	0.000	0.022	0.026
Jan. 2018	0.000	0.000	0.000	0.000	0.036	0.036
Feb. 2018	0.000	0.000	0.000	0.000	0.000	0.000
Mar. 2018	0.000	0.000	0.000	0.000	0.000	0.000
TOTAL	0.000	0.000	0.000	0.000	1.112	1.136

Month	Load Shedding due to Trippings / Break-downs / Shut-downs / Constraints in DTL System in MUs					Total in MUs
	BYPL	BRPL	TPDDL	NDMC	MES	
Apr 2017	0.121	0.255	0.189	0.000	0.000	0.565
May 2017	0.162	0.249	0.312	0.000	0.000	0.723
Jun 2017	0.018	0.170	0.071	0.000	0.000	0.259
July 2017	0.148	0.439	0.179	0.000	0.010	0.776
Aug. 2017	0.233	0.543	0.109	0.019	0.000	0.904
Sept 2017	0.064	0.485	0.079	0.000	0.000	0.628
Oct. 2017	0.001	0.129	0.332	0.000	0.000	0.462
Nov. 2017	0.011	0.100	0.033	0.000	0.000	0.144
Dec. 2017	0.013	0.151	0.042	0.000	0.000	0.206
Jan. 2018	0.014	0.091	0.423	0.000	0.000	0.528
Feb. 2018	0.237	0.599	0.036	0.005	0.000	0.877
Mar. 2018	0.011	0.020	0.004	0.000	0.000	0.035
TOTAL	1.033	3.231	1.809	0.024	0.010	6.107

Months	Load shedding due to Constraints in Discoms System in MUs				Load shedding due to Shut-downs / Break-downs / Trippings in the System of other utilities in MUs				
	BYPL	BRPL	TPDDL	NDMC	BYPL	BRPL	TPDDL	NDMC	Total
Apr 2017	0.080	1.005	0.066	0.000	0.000	0.017	0.031	0.000	0.048
May 2017	0.130	0.908	0.149	0.000	0.468	0.006	0.001	0.000	0.475
Jun 2017	0.320	2.222	0.123	0.000	0.000	0.000	0.002	0.000	0.002
July 2017	0.279	1.123	0.033	0.000	0.000	0.000	0.000	0.000	0.000
Aug. 2017	0.151	1.258	0.086	0.000	0.000	0.000	0.000	0.000	0.000
Sept 2017	0.050	0.737	0.071	0.000	0.000	0.000	0.000	0.000	0.000
Oct. 2017	0.069	0.371	0.028	0.000	0.000	0.000	0.000	0.000	0.000
Nov. 2017	0.035	0.346	0.025	0.000	0.000	0.000	0.002	0.000	0.002
Dec. 2017	0.026	0.232	0.097	0.000	0.000	0.000	0.000	0.000	0.000
Jan. 2018	0.040	0.337	0.019	0.000	0.000	0.008	0.003	0.000	0.011
Feb. 2018	0.035	0.310	0.044	0.000	0.000	0.000	0.000	0.000	0.000
Mar. 2018	0.061	0.584	0.075	0.000	0.000	0.000	0.000	0.000	0.000
TOTAL	1.276	9.433	0.816	0.000	0.468	0.031	0.039	0.000	0.538

Month	Load shedding carried out in theft prone areas in MUs			Total shedding due to T & D Constraints in MUs	Total Load Shedding in MUs	Net Consumption in MUs	Max Demand met in MW	Date	Time in Hrs.
	BYPL	BRPL	TPDDL						
Apr 2017	0.000	0.000	0.029	1.793	1.893	2777.856	5685	'21.04.2017	15:46:26
May 2017	0.000	0.000	0.048	2.433	2.643	3407.811	6021	16.05.2017	15:32:19
Jun 2017	0.000	0.000	0.000	2.926	3.000	3355.009	6526	06.06.2017	15:31:37
July 2017	0.000	0.000	0.013	2.225	2.439	3472.501	6121	10.07.2017	22:59:49
Aug. 2017	0.000	0.000	0.000	2.399	2.402	3471.663	6129	18.08.2017	22:50:57
Sept 2017	0.000	0.000	0.000	1.486	1.923	3131.618	5661	14.09.2017	23:00:29
Oct. 2017	0.000	0.000	0.043	0.973	1.001	2637.380	4723	04.10.2017	15:29:43
Nov. 2017	0.000	0.000	0.000	0.552	0.560	1896.704	3695	01.11.2017	18:22:59
Dec. 2017	0.000	0.000	0.000	0.561	0.587	1967.580	4008	29.12.2017	09:56:53
Jan. 2018	0.000	0.000	0.029	0.964	1.000	2062.443	4464	05.01.2018	09:56:11
Feb. 2018	0.000	0.000	0.000	1.266	1.266	1753.210	3946	09.02.2018	10:09:27
Mar. 2018	0.000	0.000	0.000	0.755	0.755	2052.029	3766	27.03.2018	19:27:53
TOTAL	0.000	0.000	0.162	18.333	19.469	31985.804	6526	06.06.2017	15:31:37

Month	Shedding at the time of Peak Demand in MW	Un-restricted Demand in MW	Maximum Un-restricted Demand in MW	Date	Time in Hrs.	Demand at that Time in MW	Shedding at that time in MW
Apr 2017	3	5688	5688	21.04.2017	15:46:26	5685	3
May 2017	10	6031	6031	16.05.2017	15:32:19	6021	10
Jun 2017	27	6553	6553	06.06.2017	15:31:37	6526	27
July 2017	6	6127	6127	10.07.2017	22:59:49	6121	6
Aug. 2017	4	6133	6133	18.08.2017	22:50:57	6129	4
Sept 2017	0	5661	5661	14.09.2017	23:00:29	5661	0
Oct. 2017	0	4723	4723	04.10.2017	15:29:43	4723	0
Nov. 2017	0	3695	3695	01.11.2017	18:22:59	3695	0
Dec. 2017	0	4008	4008	29.12.2017	09:56:53	4008	0
Jan. 2018	0	4464	4464	05.01.2018	09:56:11	4464	0
Feb. 2018	0	3946	3946	09.02.2018	10:09:27	3946	0
Mar. 2018	0	3766	3766	19.27.53	27.03.2018	3766	0
TOTAL	27	6553	6553	06.06.2017	15:31:37	6526	27

9.15 DEMAND - AVAILABILITY-DEMAND POSITION OF DELHI AT THE TIME OF PEAK DEMAND MET DURING 2017-18

Month	Date	Time of peak demand in Hrs.	Generation within Delhi in MW							
			GT	Pragati	Bawana	BTPS	TOWM CL	EDWP CL	DMSW	Rithala
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Apr 2017	21	15:46:26	75	260	250	328	18	5	14	0
May 2017	16	15:32:19	71	143	297	329	18	3	-2	0
Jun 2017	6	15:31:37	131	288	284	376	10	2	13	0
July 2017	10	22:59:49	66	150	496	327	16	3	12	0
Aug 2017	18	22:50:57	77	259	570	321	10	3	7	0
Sept 2017	14	23:00:29	212	262	451	345	17	2	2	0
Oct. 2017	4	15:29:43	128	276	492	291	14	1	11	0
Nov. 2017	1	18:22:59	37	151	270	-4	16	3	14	0
Dec. 2017	29	09:56:53	37	269	252	-4	3	13	-4	0
Jan. 2018	5	09:56:11	37	333	197	-4	13	2	12	0
Feb. 2018	9	10:09:27	40	268	253	-4	15	-1	9	0
Mar 2018	27	19:27:53	35	145	296	-3	19	3	11	0
TOTAL	06.06.17	15:31:37	131	288	284	376	10	2	13	0

Month	Date	Time of peak demand in Hrs	Total in MW	Import from the Grid in MW	Schedule from the Grid in MW	OD (-) / UD (+) in MW	Demand met in MW	Shedding in MW	Un-Restricted Demand in MW
	(1)	(2)							
Apr 2017	21	15:46:26	950	4735	4742	7	5685	3	5688
May 2017	16	15:32:19	859	5162	5238	76	6021	10	6031
Jun 2017	6	15:31:37	1104	5422	5547	125	6526	27	6553
July 2017	10	22:59:49	1070	5051	4939	-112	6121	6	6127
Aug 2017	18	22:50:57	1247	4874	4879	5	6121	6	6127
Sept 2017	14	23:00:29	1291	4370	4353	-17	5661	0	5661
Oct. 2017	4	15:29:43	1213	3510	3459	-51	4723	0	4723
Nov. 2017	1	18:22:59	487	3208	3101	-107	3695	0	3695
Dec. 2017	29	09:56:53	566	3442	3299	-143	4008	0	4008
Jan. 2018	5	09:56:11	590	3874	3563	-311	4464	0	4464
Feb. 2018	9	10:09:27	580	3366	3255	-111	3946	0	3946
Mar 2018	27	19:27:53	506	3260	3177	-83	3766	0	3766
Max	06.06.17	15:31:37	1104	5422	5547	125	6526	27	6553

9.16 POWER AVAILABILITY- DEMAND POSITION AT THE TIME OF OCCURRENCE OF MAXIMUM UNRESTRICTED DEMAND DURING 2017-18

Month	Date	Time of peak demand in Hrs.	Generation within Delhi in MW							
			GT	Pragati	Bawana	BTPS	TOWM CL	EDWP CL	DMSW	Rithal a
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Apr 2017	21	15:46:26	75	260	250	328	18	5	14	0
May 2017	16	15:32:19	71	143	297	329	18	3	-2	0
Jun 2017	6	15:31:37	131	288	284	376	10	2	13	0
July 2017	10	22:59:49	66	150	496	327	16	3	12	0
Aug 2017	18	22:50:57	77	259	570	321	10	3	7	0
Sept 2017	14	23:00:29	212	262	451	345	17	2	2	0
Oct. 2017	4	15:29:43	128	276	492	291	14	1	11	0
Nov. 2017	1	18:22:59	37	151	270	-4	16	3	14	0
Dec. 2017	29	09:56:53	37	269	252	-4	3	13	-4	0
Jan. 2018	5	09:56:11	37	333	197	-4	13	2	12	0
Feb. 2018	9	10:09:27	40	268	253	-4	15	-1	9	0
Mar 2018	27	19:27:53	35	145	296	-3	19	3	11	0
TOTAL	06.06.17	15:31:37	131	288	284	376	10	2	13	0

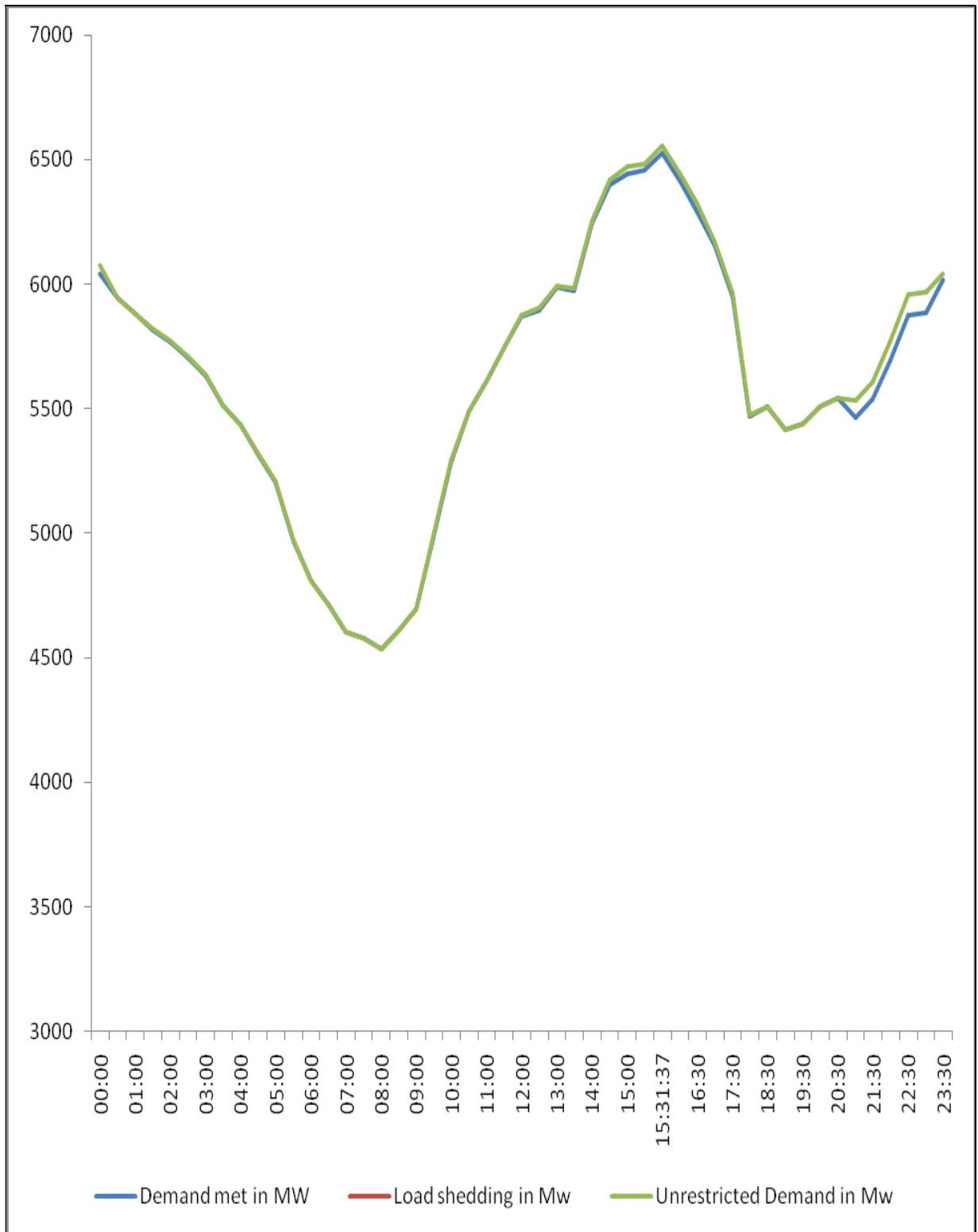
Month	Date	Time of peak demand in Hrs.	Total in MW	Import from the Grid in MW	Schedule from the Grid in MW	OD (-) / UD (+) in MW	Demand met in MW	Shedding in MW	Un-Restricted Demand in MW
	(1)	(2)	(11)= (3) to (10)	(12)	(13)	(14)= (13)- (12)	(15)= (11)+ (12)	(16)	(17)= (15)+ (16)
Apr 2017	21	15:46:26	950	4735	4742	7	5685	3	5688
May 2017	16	15:32:19	859	5162	5238	76	6021	10	6031
Jun 2017	6	15:31:37	1104	5422	5547	125	6526	27	6553
July 2017	10	22:59:49	1070	5051	4939	-112	6121	6	6127
Aug 2017	18	22:50:57	1247	4874	4879	5	6121	6	6127
Sept 2017	14	23:00:29	1291	4370	4353	-17	5661	0	5661
Oct. 2017	4	15:29:43	1213	3510	3459	-51	4723	0	4723
Nov. 2017	1	18:22:59	487	3208	3101	-107	3695	0	3695
Dec. 2017	29	09:56:53	566	3442	3299	-143	4008	0	4008
Jan. 2018	5	09:56:11	590	3874	3563	-311	4464	0	4464
Feb. 2018	9	10:09:27	580	3366	3255	-111	3946	0	3946
Mar 2018	27	19:27:53	506	3260	3177	-83	3766	0	3766
Max	06.06.17	15:31:37	1104	5422	5547	125	6526	27	6553

9.17 LOAD PATTERN

9.17.1 SUMMER SEASON

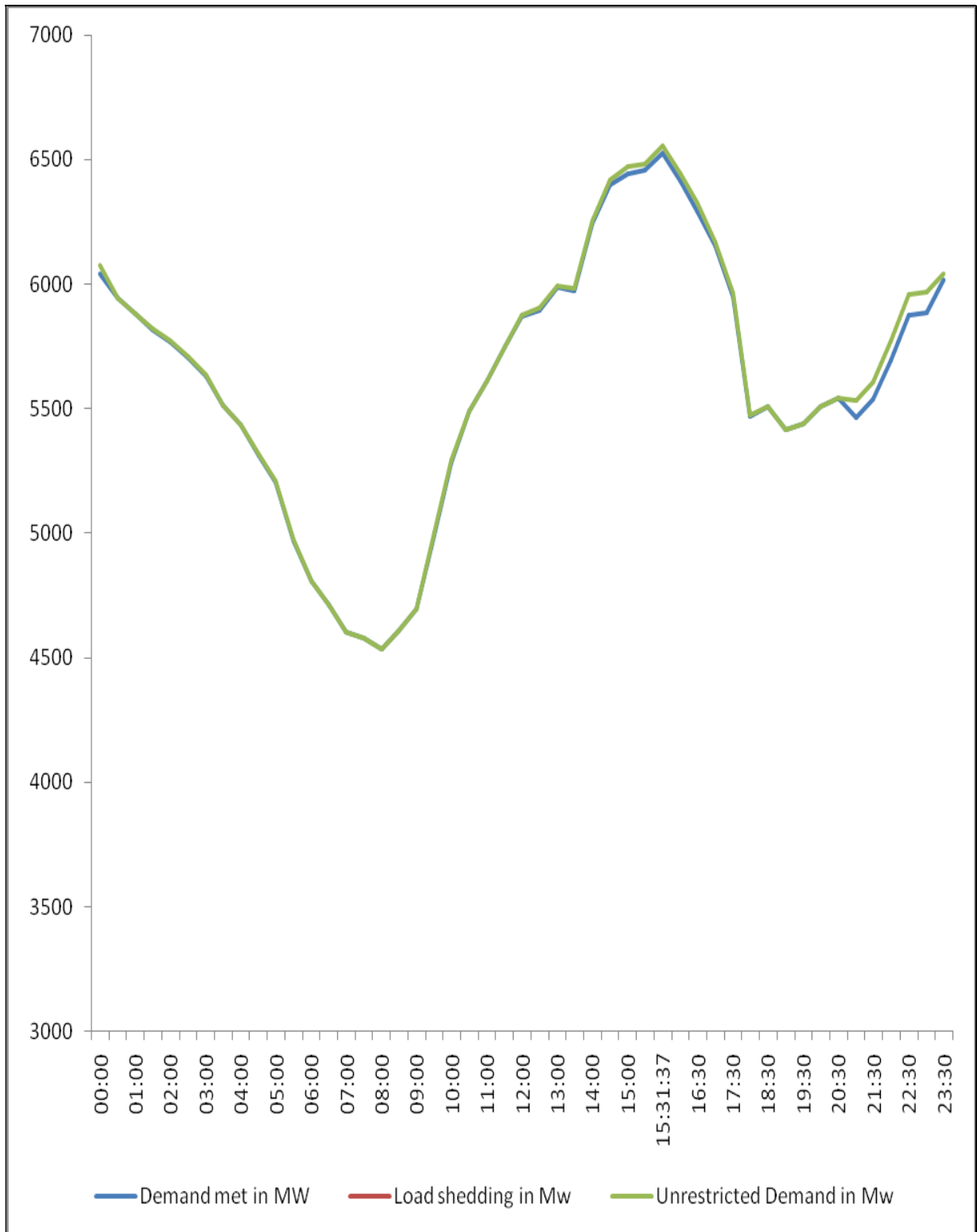
9.17.1.1 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM PEAK DEMAND MET DURING SUMMER 2017-18 - 6526MW at 15:31:37Hrs. on 06.06.2017.

Time (Hrs).	Demand in MW	Load Shedding in MW	Un-Restricted Demand in MW
00:00	6043	33	6076
00:30	5944	0	5944
01:00	5879	0	5879
01:30	5818	6	5824
02:00	5765	6	5771
02:30	5705	4	5709
03:00	5631	4	5635
03:30	5514	0	5514
04:00	5434	0	5434
04:30	5313	3	5316
05:00	5205	5	5210
05:30	4970	5	4975
06:00	4811	0	4811
06:30	4709	0	4709
07:00	4604	0	4604
07:30	4578	0	4578
08:00	4535	0	4535
08:30	4607	2	4609
09:00	4694	3	4697
09:30	4995	9	5004
10:00	5283	10	5293
10:30	5488	0	5488
11:00	5612	0	5612
11:30	5747	0	5747
12:00	5872	2	5874
12:30	5897	6	5903
13:00	5987	8	5995
13:30	5974	9	5983
14:00	6244	9	6253
14:30	6400	17	6417
15:00	6441	29	6470
15:30	6456	27	6483
15:31:37	6526	27	6553
16:00	6414	28	6442
16:30	6293	34	6327
17:00	6156	12	6168
17:30	5951	12	5963
18:00	5471	3	5474
18:30	5507	0	5507
19:00	5415	0	5415
19:30	5442	0	5442
20:00	5510	0	5510
20:30	5541	0	5541
21:00	5466	66	5532
21:30	5539	66	5605
22:00	5694	77	5771
22:30	5876	80	5956
23:00	5886	81	5967
23:30	6018	24	6042
Energy Consumption in MUs	136.816	0.332	137.148



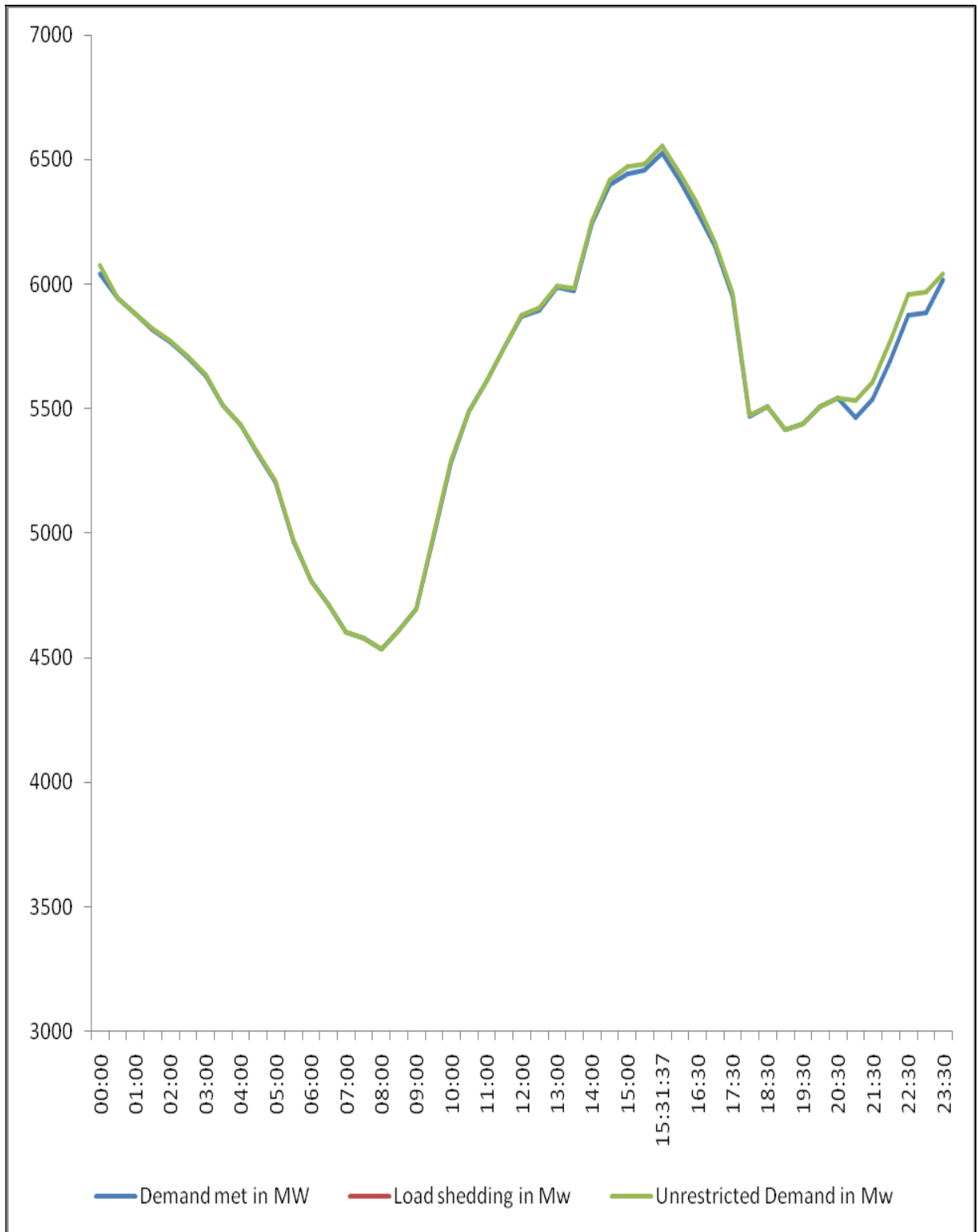
9.17.1.2 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM UNRESTRICTED DEMAND DURING SUMMER 2017-18 – 6553 MW at 15:31:37Hrs. on 06.06.2017.

Time (Hrs).	Demand in MW	Load Shedding in MW	Un-Restricted Demand in MW
00:00	6043	33	6076
00:30	5944	0	5944
01:00	5879	0	5879
01:30	5818	6	5824
02:00	5765	6	5771
02:30	5705	4	5709
03:00	5631	4	5635
03:30	5514	0	5514
04:00	5434	0	5434
04:30	5313	3	5316
05:00	5205	5	5210
05:30	4970	5	4975
06:00	4811	0	4811
06:30	4709	0	4709
07:00	4604	0	4604
07:30	4578	0	4578
08:00	4535	0	4535
08:30	4607	2	4609
09:00	4694	3	4697
09:30	4995	9	5004
10:00	5283	10	5293
10:30	5488	0	5488
11:00	5612	0	5612
11:30	5747	0	5747
12:00	5872	2	5874
12:30	5897	6	5903
13:00	5987	8	5995
13:30	5974	9	5983
14:00	6244	9	6253
14:30	6400	17	6417
15:00	6441	29	6470
15:30	6456	27	6483
15:31:37	6526	27	6553
16:00	6414	28	6442
16:30	6293	34	6327
17:00	6156	12	6168
17:30	5951	12	5963
18:00	5471	3	5474
18:30	5507	0	5507
19:00	5415	0	5415
19:30	5442	0	5442
20:00	5510	0	5510
20:30	5541	0	5541
21:00	5466	66	5532
21:30	5539	66	5605
22:00	5694	77	5771
22:30	5876	80	5956
23:00	5886	81	5967
23:30	6018	24	6042
Energy Consumption in MUs	136.816	0.332	137.148



9.17.1.3 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM ENERGY CONSUMED DURING SUMMER 2017-18 – 136.816 MUs on 06.06.2017.

Time (Hrs).	Demand in MW	Load Shedding in MW	Un-Restricted Demand in MW
00:00	6043	33	6076
00:30	5944	0	5944
01:00	5879	0	5879
01:30	5818	6	5824
02:00	5765	6	5771
02:30	5705	4	5709
03:00	5631	4	5635
03:30	5514	0	5514
04:00	5434	0	5434
04:30	5313	3	5316
05:00	5205	5	5210
05:30	4970	5	4975
06:00	4811	0	4811
06:30	4709	0	4709
07:00	4604	0	4604
07:30	4578	0	4578
08:00	4535	0	4535
08:30	4607	2	4609
09:00	4694	3	4697
09:30	4995	9	5004
10:00	5283	10	5293
10:30	5488	0	5488
11:00	5612	0	5612
11:30	5747	0	5747
12:00	5872	2	5874
12:30	5897	6	5903
13:00	5987	8	5995
13:30	5974	9	5983
14:00	6244	9	6253
14:30	6400	17	6417
15:00	6441	29	6470
15:30	6456	27	6483
15:31:37	6526	27	6553
16:00	6414	28	6442
16:30	6293	34	6327
17:00	6156	12	6168
17:30	5951	12	5963
18:00	5471	3	5474
18:30	5507	0	5507
19:00	5415	0	5415
19:30	5442	0	5442
20:00	5510	0	5510
20:30	5541	0	5541
21:00	5466	66	5532
21:30	5539	66	5605
22:00	5694	77	5771
22:30	5876	80	5956
23:00	5886	81	5967
23:30	6018	24	6042
Energy Consumption in MUs	136.816	0.332	137.148



9.17.1.4 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM UNRESTRICTED ENERGY DEMAND DURING SUMMER 2017-18 – 137.148 MUs on 06.06.2017.

Time (Hrs).	Demand in MW	Load Shedding in MW	Un-Restricted Demand in MW
00:00	6043	33	6076
00:30	5944	0	5944
01:00	5879	0	5879
01:30	5818	6	5824
02:00	5765	6	5771
02:30	5705	4	5709
03:00	5631	4	5635
03:30	5514	0	5514
04:00	5434	0	5434
04:30	5313	3	5316
05:00	5205	5	5210
05:30	4970	5	4975
06:00	4811	0	4811
06:30	4709	0	4709
07:00	4604	0	4604
07:30	4578	0	4578
08:00	4535	0	4535
08:30	4607	2	4609
09:00	4694	3	4697
09:30	4995	9	5004
10:00	5283	10	5293
10:30	5488	0	5488
11:00	5612	0	5612
11:30	5747	0	5747
12:00	5872	2	5874
12:30	5897	6	5903
13:00	5987	8	5995
13:30	5974	9	5983
14:00	6244	9	6253
14:30	6400	17	6417
15:00	6441	29	6470
15:30	6456	27	6483
15:31:37	6526	27	6553
16:00	6414	28	6442
16:30	6293	34	6327
17:00	6156	12	6168
17:30	5951	12	5963
18:00	5471	3	5474
18:30	5507	0	5507
19:00	5415	0	5415
19:30	5442	0	5442
20:00	5510	0	5510
20:30	5541	0	5541
21:00	5466	66	5532
21:30	5539	66	5605
22:00	5694	77	5771
22:30	5876	80	5956
23:00	5886	81	5967
23:30	6018	24	6042
Energy Consumption in MUs	136.816	0.332	137.148

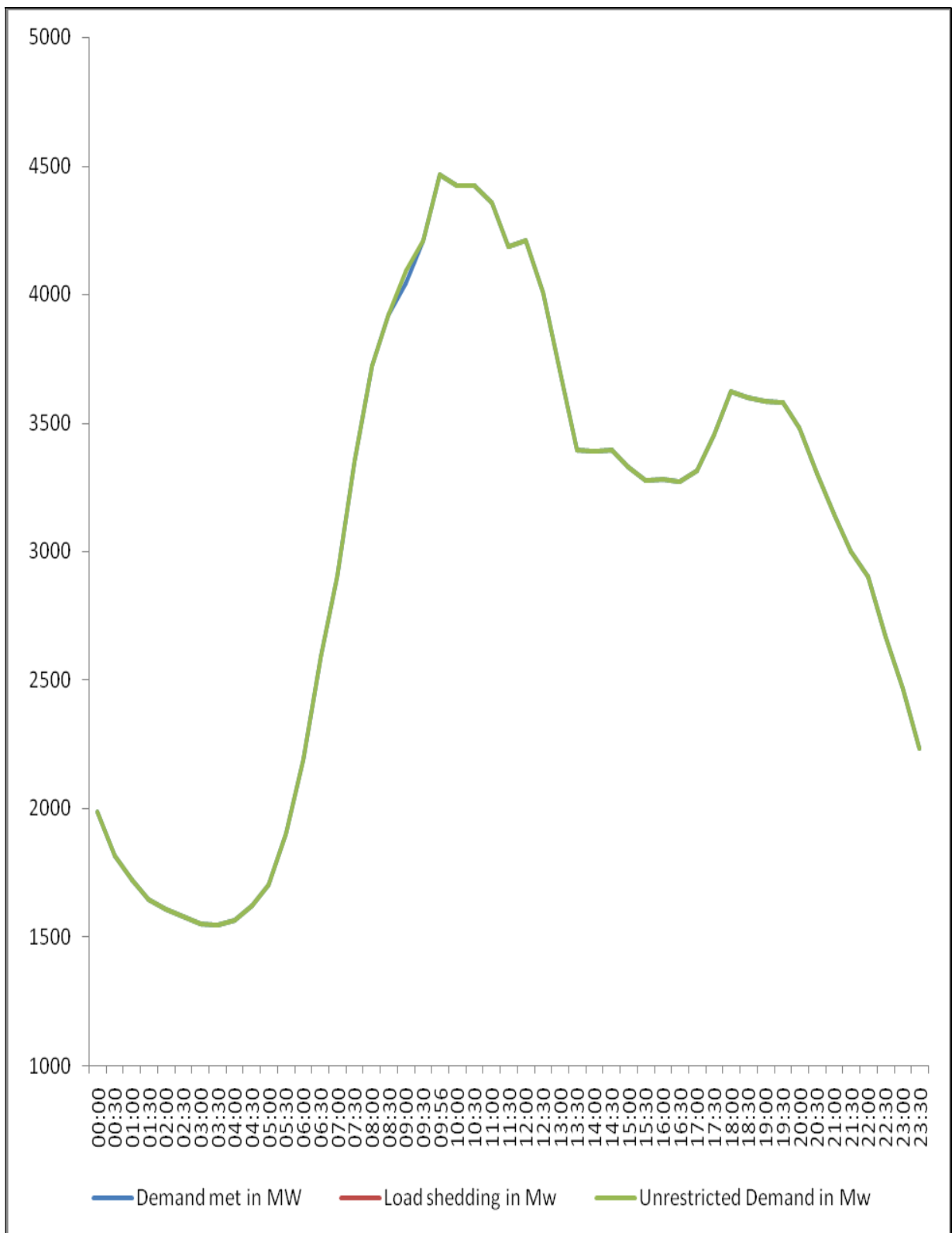


9.17.2 WINTER LOAD PATTERN

9.17.2.1 LOAD PATTERN OF DELHI ON THE DAY OF PEAK DEMAND MET DURING WINTER 2017-18 - 4464 MW at 09:56:11 Hrs. on 05.01.2018

All figures in MW

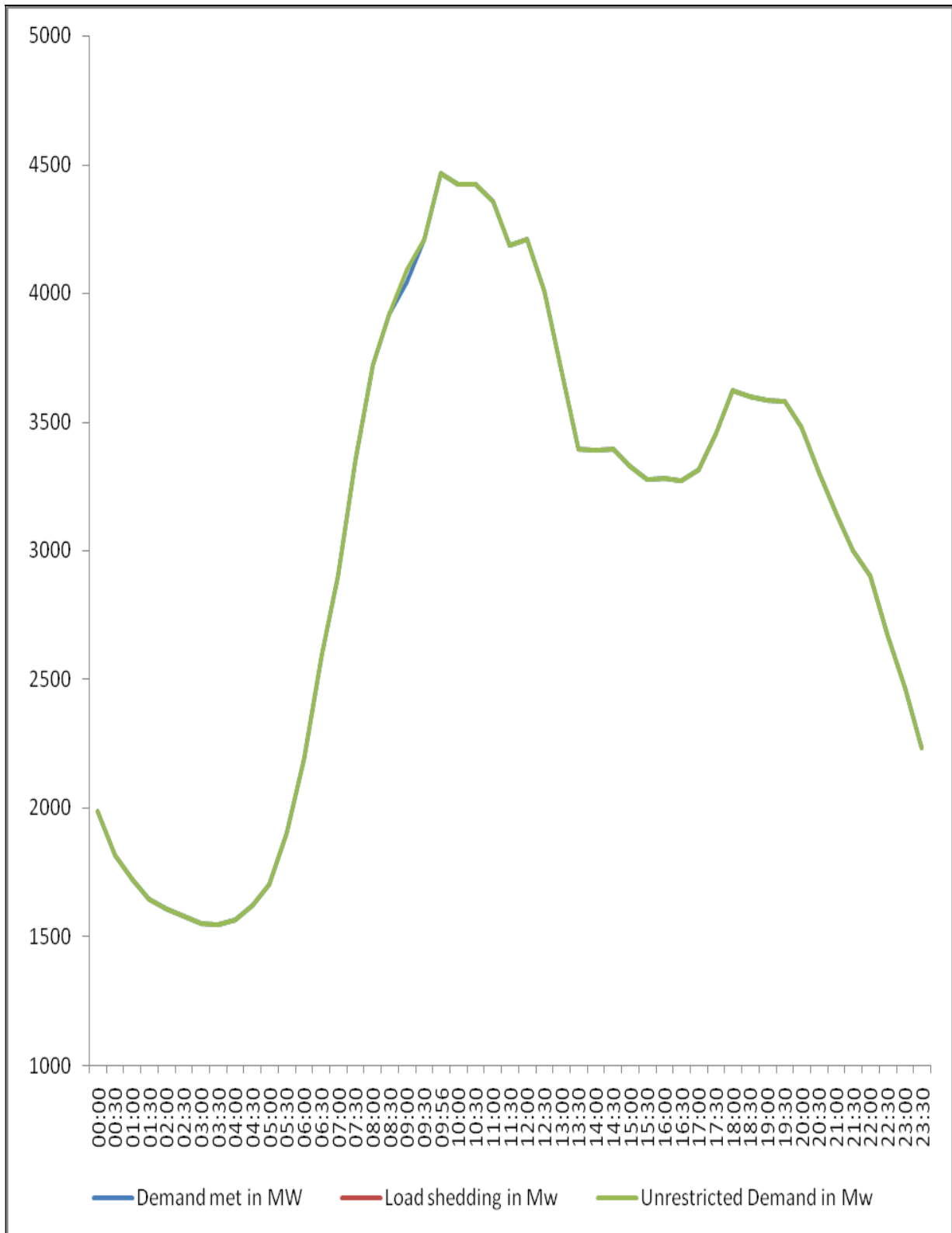
Hrs.	Demand	Load Shedding	Un-Restricted Demand
00:00	1986	0	1986
00:30	1819	0	1819
01:00	1723	0	1723
01:30	1648	0	1648
02:00	1610	0	1610
02:30	1579	0	1579
03:00	1551	0	1551
03:30	1549	0	1549
04:00	1565	0	1565
04:30	1621	0	1621
05:00	1702	0	1702
05:30	1904	0	1904
06:00	2190	0	2190
06:30	2588	0	2588
07:00	2900	0	2900
07:30	3352	0	3352
08:00	3720	0	3720
08:30	3921	0	3921
09:00	4045	47	4092
09:30	4211	0	4211
09:56	4464	0	4464
10:00	4421	0	4421
10:30	4422	0	4422
11:00	4354	0	4354
11:30	4184	0	4184
12:00	4210	0	4210
12:30	4006	0	4006
13:00	3706	0	3706
13:30	3395	0	3395
14:00	3391	0	3391
14:30	3393	0	3393
15:00	3328	0	3328
15:30	3276	0	3276
16:00	3280	0	3280
16:30	3272	0	3272
17:00	3315	0	3315
17:30	3455	0	3455
18:00	3624	0	3624
18:30	3598	0	3598
19:00	3586	0	3586
19:30	3578	0	3578
20:00	3482	0	3482
20:30	3305	0	3305
21:00	3142	0	3142
21:30	3001	0	3001
22:00	2901	0	2901
22:30	2671	0	2671
23:00	2468	0	2468
23:30	2235	0	2235
Energy Consumption in MUs	72.199	0.025	72.224



**9.17.2.2 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM UN-RESTRICTED DEMAND
WINTER 2017-18 - 4464 MW at 09:56:11 Hrs. on 05.01.2018**

All figures in MW

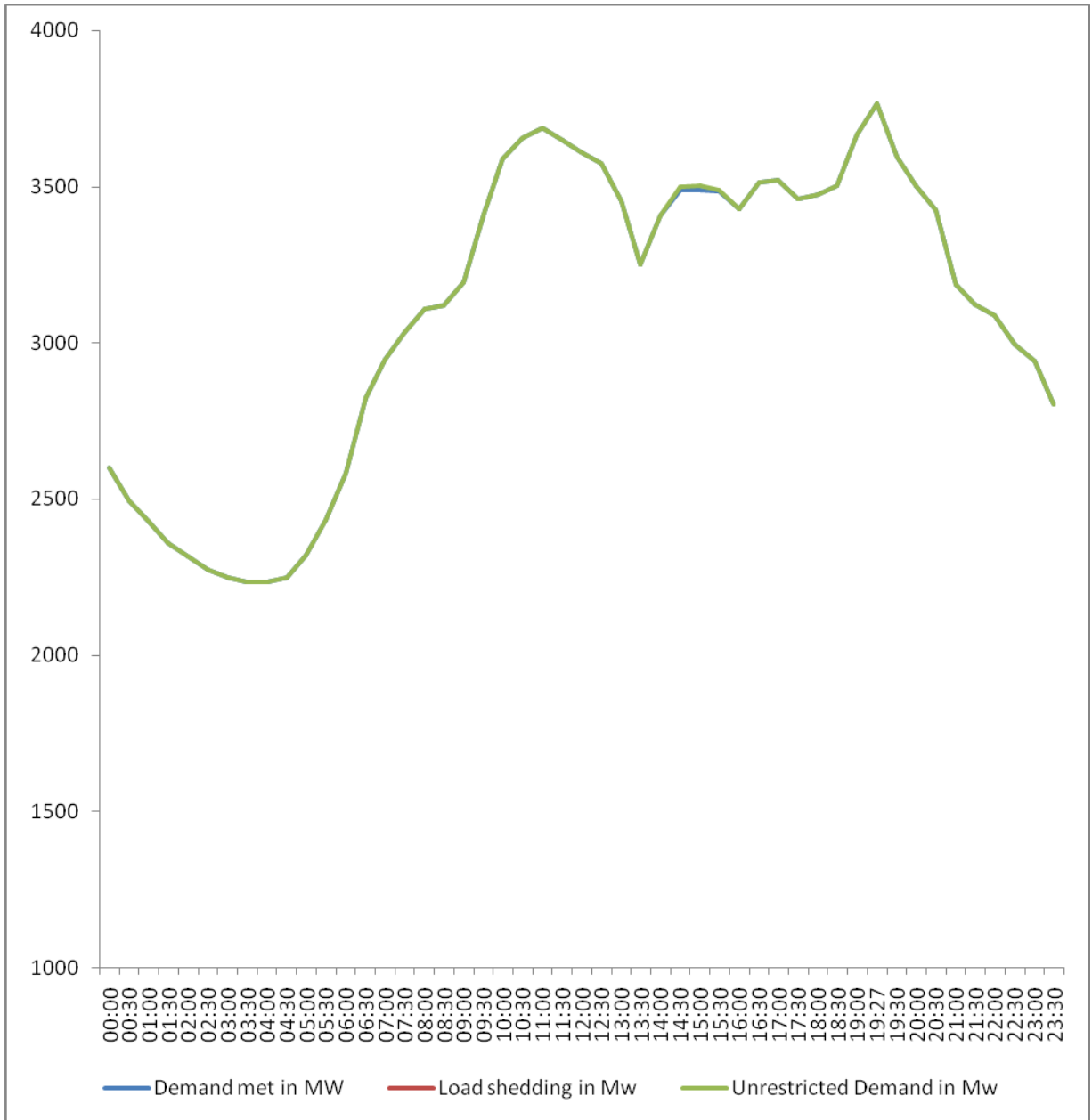
Hrs.	Demand	Load Shedding	Un-Restricted Demand
00:00	1986	0	1986
00:30	1819	0	1819
01:00	1723	0	1723
01:30	1648	0	1648
02:00	1610	0	1610
02:30	1579	0	1579
03:00	1551	0	1551
03:30	1549	0	1549
04:00	1565	0	1565
04:30	1621	0	1621
05:00	1702	0	1702
05:30	1904	0	1904
06:00	2190	0	2190
06:30	2588	0	2588
07:00	2900	0	2900
07:30	3352	0	3352
08:00	3720	0	3720
08:30	3921	0	3921
09:00	4045	47	4092
09:30	4211	0	4211
09:56	4464	0	4464
10:00	4421	0	4421
10:30	4422	0	4422
11:00	4354	0	4354
11:30	4184	0	4184
12:00	4210	0	4210
12:30	4006	0	4006
13:00	3706	0	3706
13:30	3395	0	3395
14:00	3391	0	3391
14:30	3393	0	3393
15:00	3328	0	3328
15:30	3276	0	3276
16:00	3280	0	3280
16:30	3272	0	3272
17:00	3315	0	3315
17:30	3455	0	3455
18:00	3624	0	3624
18:30	3598	0	3598
19:00	3586	0	3586
19:30	3578	0	3578
20:00	3482	0	3482
20:30	3305	0	3305
21:00	3142	0	3142
21:30	3001	0	3001
22:00	2901	0	2901
22:30	2671	0	2671
23:00	2468	0	2468
23:30	2235	0	2235
Energy Consumption in MUs	72.199	0.025	72.224



9.17.2.3 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM ENERGY CONSUMED DURING WINTER 2017-18 – 77.185 MUs ON 27.03.2018.

All figures in MW

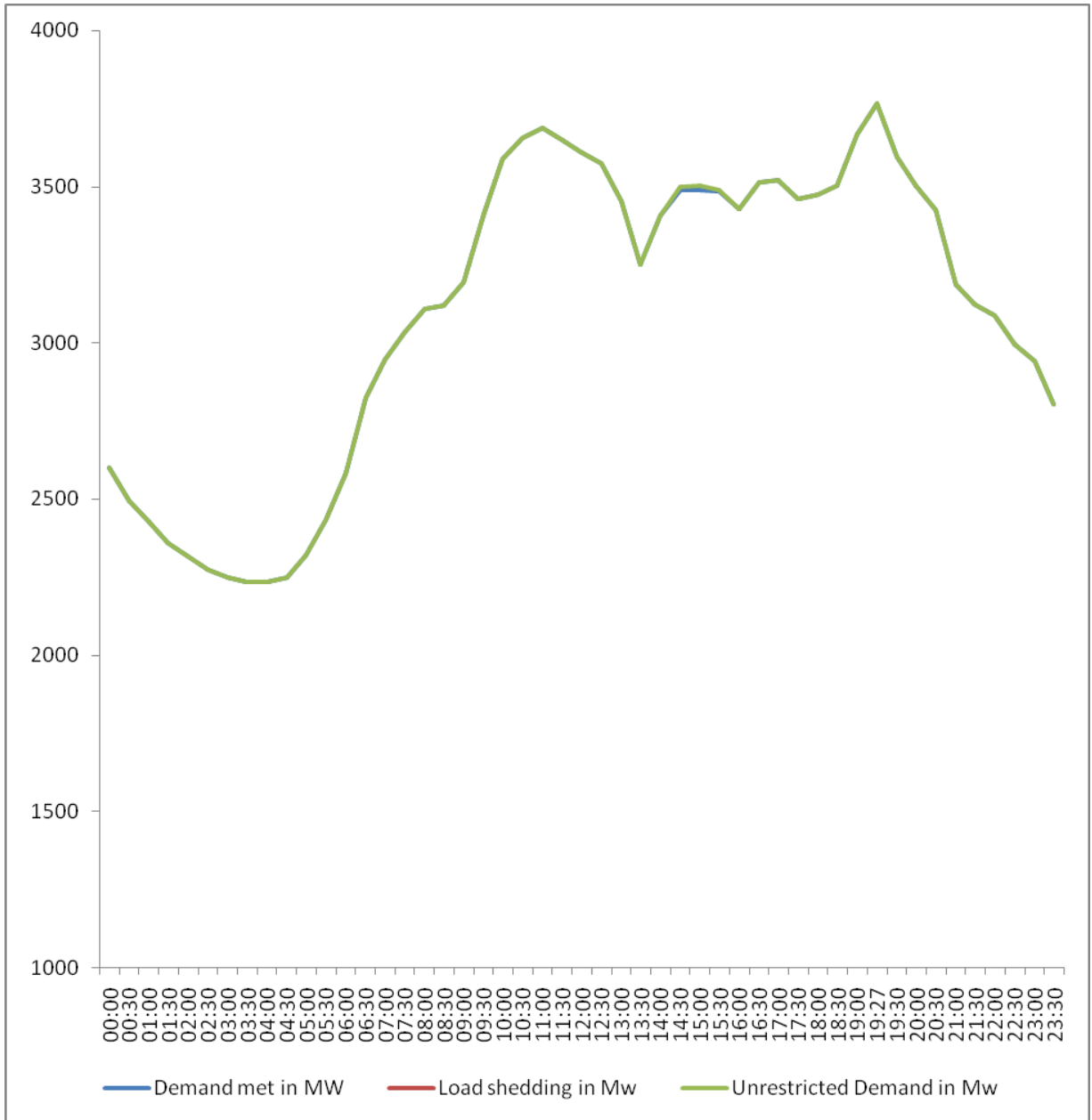
Hrs.	Demand	Load Shedding	Un-Restricted Demand
00:00	2600	0	2600
00:30	2495	0	2495
01:00	2426	0	2426
01:30	2357	0	2357
02:00	2318	0	2318
02:30	2274	0	2274
03:00	2248	0	2248
03:30	2236	0	2236
04:00	2235	0	2235
04:30	2247	0	2247
05:00	2318	0	2318
05:30	2432	0	2432
06:00	2581	0	2581
06:30	2823	0	2823
07:00	2945	0	2945
07:30	3033	0	3033
08:00	3107	0	3107
08:30	3119	0	3119
09:00	3194	0	3194
09:30	3411	0	3411
10:00	3590	0	3590
10:30	3656	0	3656
11:00	3688	0	3688
11:30	3647	0	3647
12:00	3609	0	3609
12:30	3574	0	3574
13:00	3453	0	3453
13:30	3252	0	3252
14:00	3405	0	3405
14:30	3488	12	3500
15:00	3489	12	3501
15:30	3487	2	3489
16:00	3428	0	3428
16:30	3512	0	3512
17:00	3519	0	3519
17:30	3462	0	3462
18:00	3476	0	3476
18:30	3501	0	3501
19:00	3666	0	3666
19:27	3766	0	3766
19:30	3596	0	3596
20:00	3502	0	3502
20:30	3425	0	3425
21:00	3186	0	3186
21:30	3122	0	3122
22:00	3086	0	3086
22:30	2994	0	2994
23:00	2943	0	2943
23:30	2803	0	2803
Energy Consumption in MUs	77.185	0.020	77.205



9.17.2.4 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM UNRESTRICTED ENERGY DEMAND DURING WINTER 2017-18 – 77.205 MUs ON 27.03.2018.

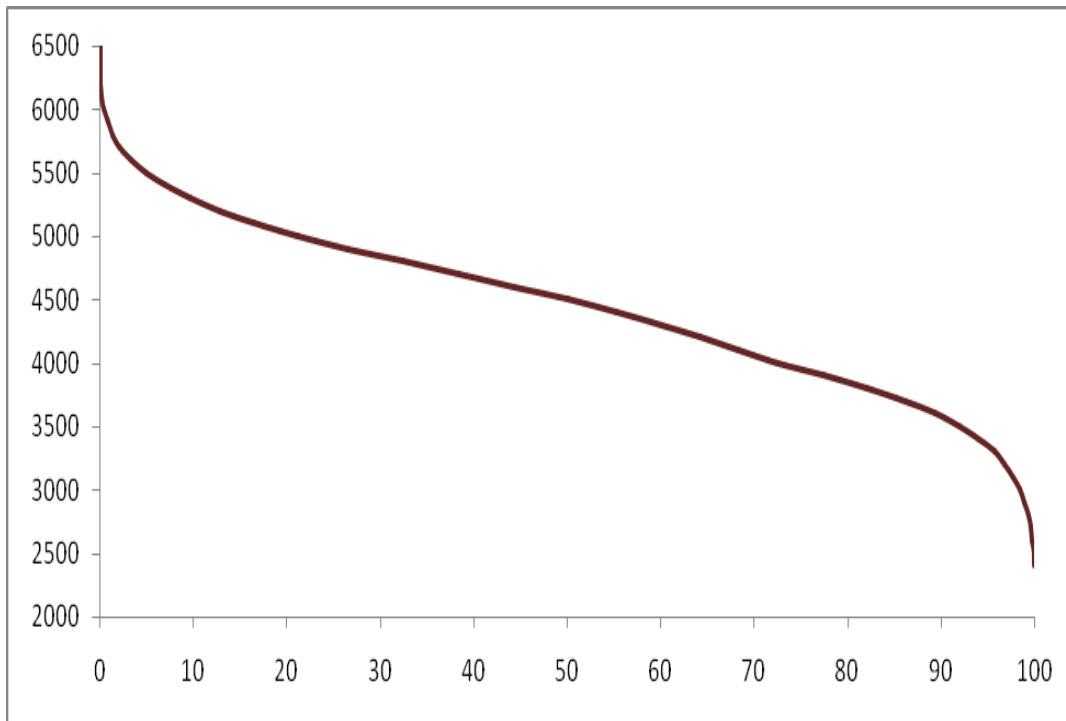
All figures in MW

Hrs.	Demand met	Load Shedding	Un-Restricted Demand
00:00	2600	0	2600
00:30	2495	0	2495
01:00	2426	0	2426
01:30	2357	0	2357
02:00	2318	0	2318
02:30	2274	0	2274
03:00	2248	0	2248
03:30	2236	0	2236
04:00	2235	0	2235
04:30	2247	0	2247
05:00	2318	0	2318
05:30	2432	0	2432
06:00	2581	0	2581
06:30	2823	0	2823
07:00	2945	0	2945
07:30	3033	0	3033
08:00	3107	0	3107
08:30	3119	0	3119
09:00	3194	0	3194
09:30	3411	0	3411
10:00	3590	0	3590
10:30	3656	0	3656
11:00	3688	0	3688
11:30	3647	0	3647
12:00	3609	0	3609
12:30	3574	0	3574
13:00	3453	0	3453
13:30	3252	0	3252
14:00	3405	0	3405
14:30	3488	12	3500
15:00	3489	12	3501
15:30	3487	2	3489
16:00	3428	0	3428
16:30	3512	0	3512
17:00	3519	0	3519
17:30	3462	0	3462
18:00	3476	0	3476
18:30	3501	0	3501
19:00	3666	0	3666
19:27	3766	0	3766
19:30	3596	0	3596
20:00	3502	0	3502
20:30	3425	0	3425
21:00	3186	0	3186
21:30	3122	0	3122
22:00	3086	0	3086
22:30	2994	0	2994
23:00	2943	0	2943
23:30	2803	0	2803
Energy Consumption in MUs	77.185	0.020	77.205



9.18 LOAD DURATION CURVE FOR 2017-18 (Based on SCADA)

LOAD REMAINED ABOVE IN MW	(%) OF TIME	LOAD REMAINED ABOVE IN MW	(%) OF TIME
6500	0.01	4400	55.35
6400	0.04	4300	60.17
6300	0.06	4200	64.24
6200	0.12	4100	68.38
6100	0.21	4000	72.56
6000	0.38	3900	77.43
5900	0.88	3800	82.13
5800	1.40	3700	86.19
5700	2.08	3600	89.39
5600	3.34	3500	91.95
5500	4.96	3400	94.15
5400	7.00	3300	95.72
5300	9.67	3200	96.81
5200	12.81	3100	97.70
5100	16.49	3000	98.43
5000	21.24	2900	98.94
4900	26.62	2800	99.40
4800	32.44	2700	99.63
4700	38.46	2600	99.79
4600	44.46	2500	99.95
4500	50.12	2400	100.00



10 FREQUENCY SPECTRUM OF NORTHERN REGION [(NORTH-EAST-WEST)(NEW)] FOR 2017-18

Month	Frequency in Hz.			Frequency Variation indexed (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 (%)	< 50.00 HZ (%)	< 49.9 HZ (%)	< 49.8 HZ (%)	< 49.7 HZ (%) Below 49.7 Hz
Apr 2017	49.98	50.26	49.96	0.044	0.04	3.45	13.58	74.22	55.32	8.92	0.40	0.01
May 2017	49.98	50.32	49.64	0.048	0.19	4.19	14.98	71.51	51.95	9.18	0.78	0.02
Jun 2017	50.00	50.24	49.73	0.037	0.05	3.67	15.47	75.49	47.39	5.81	0.71	0.00
July 2017	50.00	50.23	49.69	0.038	0.01	2.64	14.96	76.15	49.74	6.56	0.51	0.01
Aug 2017	49.99	50.20	49.65	0.045	0.00	2.15	14.15	77.00	51.03	7.12	0.55	0.02
Sept 2017	49.97	50.32	49.61	0.048	0.02	1.06	8.94	78.50	63.72	11.77	0.68	0.03
Oct. 2017	49.97	50.20	49.67	0.059	0.00	1.09	8.53	77.39	63.92	13.31	0.72	0.01
Nov. 2017	49.96	50.27	49.62	0.051	0.02	1.64	8.14	73.53	67.66	16.91	1.29	0.07
Dec. 2017	49.98	50.27	49.70	0.046	0.07	2.52	11.15	73.86	58.44	12.86	0.85	0.00
Jan. 2018	49.98	50.29	49.62	0.046	0.06	2.12	9.00	77.94	61.53	11.15	0.66	0.01
Feb. 2018	49.98	50.21	49.70	0.041	0.00	1.71	8.48	80.25	62.25	9.70	0.30	0.00
Mar 2018	49.97	50.25	49.75	0.048	0.00	1.27	6.41	79.17	68.83	13.26	0.64	0.01
2017-18	49.98	50.32	49.61	0.046	0.04	2.30	11.17	76.23	58.45	10.55	0.63	0.02

11 DETAILS OF UNDER FREQUENCY RELAY TRIPPINGS OCCURRED IN 2017-18

MONTH	STAGE-1	STAGE-2	df/dt	TOTAL
APRIL 2017	1	0	0	1
MAY 2017	0	0	0	0
JUNE 2017	0	0	0	0
JULY 2017	0	0	0	0
AUGUST 2017	0	0	0	0
SEPTEMBER 2017	1	0	0	1
OCTOBER 2017	0	0	0	0
NOVEMBER 2017	0	0	0	0
DECEMBER 2017	1	0	0	1
JANUARY 2018	0	0	0	0
FEBRUARY 2018	0	0	0	0
MARCH 2018	0	0	0	0
TOTAL 2017-18	3	0	0	3

12 INTRASTATE TRANSMISSION LOSSES

12.1 WEEK WISE INTRASTATE TRANSMISSION LOSSES FOR 2017-18 (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							Total
			RPH	GT	Pragati	BTPS	Bawana	MSW Bawana	EDW PCL	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)=sum(4 to 10)
1	0.55	127.359	-0.028	6.540	7.217	7.784	14.914	0.726	0.000	37.153
2	0.41	464.571	-0.088	8.528	25.727	27.163	42.275	2.734	0.000	106.339
3	0.46	491.212	-0.090	5.954	25.506	27.998	42.196	2.883	0.000	104.447
4	0.59	598.748	-0.117	8.826	34.113	54.003	42.816	2.583	0.000	142.225
5	0.45	543.903	-0.095	11.291	34.172	55.150	42.074	2.563	0.000	145.156
6	0.54	560.958	-0.143	10.720	26.175	54.610	53.484	1.767	0.000	146.612
7	0.69	660.208	-0.164	12.246	25.773	52.933	47.959	1.119	0.078	139.944
8	0.82	652.389	-0.134	12.332	25.876	55.468	48.306	0.267	0.235	142.349
9	0.76	641.764	-0.130	10.759	25.854	50.848	30.405	0.624	-0.056	118.304
10	0.76	641.098	-0.101	7.767	26.749	36.231	40.890	0.749	0.302	112.589
11	0.62	671.679	-0.117	15.094	31.242	54.920	43.642	2.169	0.422	147.373
12	0.55	625.066	-0.134	15.066	32.436	55.928	45.022	1.638	-0.026	149.930
13	0.54	604.474	-0.137	9.343	22.504	47.269	43.921	0.912	-0.109	123.703
14	0.69	623.883	-0.114	10.405	25.972	41.701	45.831	1.289	0.296	125.381
15	0.52	624.896	-0.077	10.588	25.824	49.294	70.140	1.615	0.384	157.768
16	0.64	621.450	-0.092	7.899	26.414	55.834	83.757	1.382	0.100	175.293
17	0.69	620.016	-0.096	10.562	25.957	55.752	82.069	2.116	0.075	176.435
18	0.82	591.672	-0.091	8.807	35.234	54.432	68.300	1.114	-0.084	167.711
19	0.77	576.222	-0.126	5.974	43.645	54.621	70.368	1.376	0.275	176.133
20	0.71	603.563	-0.112	8.369	33.567	54.031	68.955	1.695	-0.059	166.447
21	0.66	609.025	-0.102	12.289	41.924	54.089	75.329	1.393	0.406	185.328
22	0.60	593.828	-0.146	10.329	44.336	54.064	73.983	2.486	0.304	185.357
23	0.59	532.380	-0.111	5.949	44.574	54.013	73.036	1.790	0.296	179.547
24	0.61	566.707	-0.114	15.246	44.313	50.427	64.041	1.057	0.188	175.157
25	0.58	590.416	-0.135	28.364	46.038	48.888	69.225	1.397	0.266	194.043
26	0.31	522.505	-0.086	19.527	41.496	47.952	66.595	2.090	0.093	177.668
27	0.54	530.906	-0.073	14.654	44.306	44.507	29.705	1.839	-0.025	134.912

Week No.	Avg Trans. Loss in %age	Actual drawal from the grid in Mus	Actual Ex-bus generation with in Delhi in Mus							Total
			RPH	GT	Pragati	BTPS	Bawana	MSW Bawana	EDW PCL	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)=sum(4 to 10)
28	0.65	472.444	-0.145	18.304	46.480	49.525	69.495	2.192	0.267	186.117
29	0.66	472.397	-0.091	18.572	44.397	49.642	68.204	2.414	0.327	183.466
30	0.71	431.534	-0.096	9.867	44.531	6.093	56.773	2.654	0.349	120.171
31	0.74	415.880	-0.110	7.685	44.732	-0.714	42.644	1.677	0.520	96.435
32	0.85	404.212	-0.103	7.298	35.064	-0.599	28.719	1.476	0.313	72.167
33	1.06	336.744	-0.061	11.104	44.717	-0.570	54.842	1.860	0.133	112.024
34	1.06	325.621	-0.058	13.232	45.292	-0.562	47.312	1.513	0.382	107.112
35	0.65	308.674	-0.059	13.195	44.564	-0.509	57.020	1.341	0.375	115.927
36	1.08	327.556	-0.059	10.528	46.266	-0.550	42.638	2.092	-0.015	100.900
37	1.28	333.179	-0.075	7.348	46.474	-0.418	46.714	1.799	0.018	101.860
38	1.12	333.590	-0.105	8.576	41.162	-0.487	61.462	1.902	-0.069	112.441
39	1.00	358.188	-0.075	6.361	45.311	-0.421	42.810	1.869	0.475	96.328
40	1.02	354.354	-0.042	6.514	43.662	-0.445	42.021	1.301	0.370	93.381
41	1.26	374.084	-0.035	12.361	45.085	-0.564	38.752	1.705	0.156	97.461
42	1.00	351.027	-0.043	8.014	40.410	-0.517	72.733	1.721	0.225	122.543
43	1.08	334.631	-0.035	6.370	44.894	-0.460	77.362	0.934	0.326	129.392
44	1.22	341.871	-0.051	8.161	45.676	-0.367	56.791	1.802	-0.005	112.006
45	1.11	327.084	-0.043	12.196	45.109	-0.374	68.057	0.907	-0.056	125.797
46	1.06	344.278	-0.039	6.315	45.479	-0.404	49.810	1.779	-0.098	102.842
47	1.11	343.667	-0.052	9.122	43.753	-0.266	41.787	1.901	-0.042	96.203
48	1.09	338.903	-0.079	6.428	44.820	-0.346	41.734	1.829	0.535	94.921
49	1.08	332.374	-0.087	6.397	37.502	-0.356	26.370	2.086	0.669	72.582
50	1.02	361.441	-0.084	10.692	7.669	-0.459	58.161	0.281	0.675	76.935
51	0.97	373.397	-0.050	13.034	21.058	-0.397	62.582	-0.041	0.100	96.285
52	1.05	386.070	-0.048	10.869	25.685	-0.371	58.703	0.212	0.525	95.574
53	1.02	363.590	-0.075	5.109	21.629	-0.356	51.833	2.029	0.611	80.779
Total	0.84	24937.684	-4.754	557.079	1908.364	1394.659	2844.567	84.609	11.637	6796.162

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	Nor4th rn Railway	Total	in Mus	in %
(1)	(12)=(3)+(11)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)=(13)+(14)+(15)+(16)+(17)+(19)	(21)=(12)-(20)	(21)=(21)*100/12
1	164.512	48.580	66.528	39.702	6.900	1.138	0.000	0.000	162.847	1.664	0.55
2	570.910	173.485	227.996	133.614	26.556	4.086	0.001	0.000	565.737	5.173	0.41
3	595.659	179.261	239.841	139.724	26.920	4.202	0.001	0.000	589.949	5.710	0.46
4	740.973	213.210	309.883	172.249	33.703	5.351	0.001	0.000	734.397	6.576	0.59
5	689.059	200.981	285.171	162.201	31.333	4.833	0.001	0.000	684.521	4.538	0.45
6	707.570	204.085	294.984	166.832	31.680	5.023	0.001	0.000	702.604	4.966	0.54
7	800.152	225.510	339.791	188.276	34.942	4.993	0.001	0.000	793.513	6.639	0.69
8	794.738	224.287	335.887	186.838	36.049	4.888	0.001	0.000	787.950	6.788	0.82
9	760.068	216.721	320.192	176.963	34.481	5.293	0.001	0.000	753.651	6.417	0.76
10	753.687	215.081	315.357	177.207	34.290	5.262	0.001	0.000	747.197	6.490	0.76
11	819.052	229.668	347.234	192.245	37.041	5.630	0.001	0.000	811.819	7.233	0.62
12	774.996	220.173	323.388	184.856	35.347	5.365	0.001	0.000	769.130	5.866	0.55
13	728.177	207.376	304.977	172.619	33.264	5.067	0.001	0.000	723.305	4.872	0.54
14	749.263	210.387	318.891	173.836	34.364	5.313	0.000	0.000	742.792	6.472	0.69
15	782.664	218.257	333.169	183.346	36.598	5.652	0.001	0.000	777.024	5.641	0.52
16	796.744	223.989	339.274	184.932	36.799	5.297	0.001	0.000	790.292	6.452	0.64
17	796.450	224.627	337.765	185.052	36.900	5.447	0.001	0.000	789.794	6.657	0.69
18	759.383	216.346	319.054	177.175	35.802	4.912	0.001	0.000	753.290	6.093	0.82
19	752.355	215.494	313.611	176.814	35.354	5.288	0.001	0.000	746.562	5.793	0.77
20	770.010	219.013	323.080	181.442	35.555	5.444	0.001	0.000	764.535	5.475	0.71
21	794.353	224.127	336.322	187.660	35.399	5.578	0.001	0.000	789.088	5.265	0.66
22	779.185	225.199	324.240	183.973	35.522	5.540	0.001	0.000	774.475	4.710	0.60
23	711.928	208.306	293.846	167.309	33.229	5.026	0.001	0.000	707.717	4.211	0.59
24	741.864	217.784	306.936	173.247	34.132	5.260	0.001	0.000	737.360	4.504	0.61
25	784.459	228.842	326.060	184.634	34.857	5.497	0.003	0.000	779.893	4.566	0.58
26	700.174	206.737	289.317	165.048	31.967	4.937	0.002	0.000	698.007	2.166	0.31
27	665.818	197.552	272.482	157.473	29.870	4.865	0.002	0.000	662.244	3.574	0.54

Week	Total Consumption of Delhi at DTL periphery in Mus	Actual drawal of distribution licensees and deemed licensees in MU								Transmission losses in	
		TPDDL	BRPL	BYPL	NDMC	MES	IP	Nor4th Railway	Total	in Mus	in %
(1)	(12)=(3)+(11)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)=(13)+(14)+(15)+(16)+(17)+(19)	(21)=(12)-(20)	(21)=(21)*100/12
28	658.560	194.604	269.096	157.166	28.660	4.720	0.002	0.000	654.248	4.313	0.65
29	655.863	196.930	264.668	155.866	29.391	4.686	0.002	0.000	651.544	4.319	0.66
30	551.705	158.251	228.565	132.374	24.637	3.967	0.002	0.000	547.796	3.909	0.71
31	512.315	155.908	205.266	119.342	24.197	3.818	0.001	0.000	508.531	3.784	0.74
32	476.379	149.789	188.516	107.899	22.552	3.603	0.001	0.000	472.361	4.019	0.85
33	448.768	144.375	175.452	99.738	20.876	3.520	0.001	0.000	443.962	4.806	1.06
34	432.733	140.718	169.342	94.666	19.782	3.649	0.001	0.000	428.157	4.576	1.06
35	424.601	138.926	166.671	93.257	19.097	3.904	0.001	0.000	421.857	2.744	0.65
36	428.456	138.184	168.589	93.563	19.436	4.055	0.001	0.000	423.827	4.628	1.08
37	435.039	140.120	171.327	94.306	19.731	3.987	0.001	0.000	429.472	5.567	1.28
38	446.031	142.135	177.184	96.552	20.754	4.431	0.001	0.000	441.057	4.974	1.12
39	454.516	145.174	181.151	97.741	21.279	4.609	0.001	0.000	449.955	4.560	1.00
40	447.734	143.629	178.098	96.455	20.448	4.511	0.001	0.000	443.142	4.593	1.02
41	471.545	146.208	189.558	101.423	23.114	5.288	0.001	0.000	465.592	5.953	1.26
42	473.570	147.241	191.964	101.363	22.990	5.387	0.001	0.000	468.947	4.623	1.00
43	464.022	145.086	187.403	99.322	22.205	5.002	0.001	0.000	459.020	5.002	1.08
44	453.877	139.254	184.835	97.323	21.591	5.253	0.001	0.000	448.257	5.620	1.22
45	452.881	144.771	180.637	96.930	20.891	4.605	0.001	0.000	447.837	5.044	1.11
46	447.120	143.846	177.141	96.021	20.917	4.431	0.001	0.000	442.356	4.763	1.06
47	439.870	141.850	174.627	95.105	19.404	4.035	0.001	0.000	435.023	4.848	1.11
48	433.824	140.862	171.030	94.544	19.161	3.474	0.001	0.000	429.072	4.752	1.09
49	404.955	124.820	164.125	89.713	18.773	3.185	0.001	0.000	400.617	4.338	1.08
50	438.375	140.303	173.569	96.595	20.150	3.259	0.001	0.000	433.877	4.499	1.02
51	469.682	150.001	184.919	105.099	21.723	3.379	0.001	0.000	465.121	4.561	0.97
52	481.644	153.294	189.148	108.423	22.224	3.470	0.001	0.000	476.561	5.083	1.05
53	444.368	139.339	176.959	100.438	19.876	3.017	0.001	0.219	439.850	4.518	1.02
Total	31733.846	9440.698	13035.115	7296.489	1452.713	242.432	0.061	0.219	31467.728	266.118	0.84

Note : Total actual energy of EDWPCL to the tune of 11.637MUs includes 1.21134 MUs generating during the period 01.04.2017 to 07.05.2017.

12.2 MONTH WISE TRANSMISSION LOSSES FOR 2017-18

Month	ENERGY CONSUMPTION OF DISCOMS IN MUs							Total supply to disoms in MUs 9=sum(2 to 8)
	TPDDL	BRPL	BYPL	NDMC	MES	IP	Northern Railway	
1	2	3	4	5	6	7	8	
Apr 2017	815.51808	1129.41890	647.48973	125.41105	19.61001	0.00318	--	2737.44459
May 2017	960.36715	1420.97596	791.22514	152.44501	22.47871	0.00346	--	3347.48851
Jun 2017	940.55284	1399.33386	783.07295	150.91912	23.06159	0.00444	--	3296.93592
July 2017	966.31612	1454.62849	800.78433	159.53219	23.39703	0.00561	--	3404.65256
Aug 2017	979.01318	1430.28089	805.82312	157.36651	24.18804	0.00585	--	3396.66591
Sept 2017	908.00764	1275.61065	726.23996	139.97103	21.86950	0.00856	--	3071.69022
Oct. 2017	775.00412	1058.06459	616.84405	117.00160	18.85577	0.00791	--	2585.76221
Nov. 2017	610.52634	741.40647	417.47996	86.95343	15.95861	0.00416	--	1872.32064
Dec. 2017	628.51732	779.47963	425.23014	90.09234	19.22816	0.00461	--	1942.54298
Jan. 2018	642.10182	834.03896	441.71849	99.64292	23.11331	0.00504	--	2040.61046
Feb. 2018	568.61008	697.38193	380.93993	79.35187	15.81107	0.00422	--	1742.09067
Mar 2018	646.16356	814.49507	459.64113	94.02564	14.86064	0.00425	0.21900	2029.40079
2017-18	9440.69825	13035.11541	7296.48894	1452.71273	242.43242	0.06129	0.21900	31467.60545

Month	Generation within Delhi in MUs						
	GT	RPH	PPCL	BTPS	EDWPCL	Bawana CCGT	MSW Bawana
1	10	11	12	13	14	15	16
Apr 2017	41.139266	-0.418698	126.73595	172.0978	1.21134	184.2761	11.48952
May 2017	48.824981	-0.625226	114.95969	234.0758	0.235984	198.9908	3.933927
Jun 2017	52.45548	-0.526117	120.17694	207.9457	0.774251	187.679	6.334536
July 2017	41.126841	-0.3965019	127.20998	230.9699	0.67108	327.1352	6.756862
Aug 2017	39.642132	-0.5449691	182.60649	239.832	1.089711	320.4711	7.994033
Sept 2017	78.405155	-0.4301319	188.53178	207.6438	0.614969	254.2269	6.560048
Oct. 2017	58.230364	-0.4844572	198.47711	111.7246	1.596524	254.7555	9.510946
Nov. 2017	50.368013	-0.2856175	184.45614	-2.398104	1.051132	201.9352	7.133564
Dec. 2017	31.819425	-0.321011	196.44071	-1.99518	0.771432	210.4236	7.750971
Jan. 2018	41.605141	-0.183519	195.66489	-2.067912	0.65352	268.97	6.568057
Feb. 2018	30.121159	-0.230204	179.06768	-1.375656	0.701274	196.1022	6.920283
Mar 2018	43.34144	-0.30717	94.036674	-1.793328	2.266124	239.601	3.656334
2017-18	557.079397	-4.7536226	1908.364	1394.659	11.637341	2844.567	84.60908

Month	Drawal from NR in MUs	Total Injection For supply to Discoms	Losses in MUs	Losses in %	Losses in % during previous year
1	17	18=Sum(10to17)	19=18-9	20=19*100/18	21
Apr 2017	2225.792	2762.324	24.87912	0.90	0.88
May 2017	2774.543	3374.939	27.45037	0.81	1.01
Jun 2017	2749.185	3324.025	27.08893	0.81	1.00
July 2017	2698.145	3431.619	26.96623	0.79	0.80
Aug 2017	2628.673	3419.763	23.09733	0.68	0.86
Sept 2017	2351.932	3087.485	15.79443	0.51	0.88
Oct. 2017	1969.99	2603.801	18.03867	0.69	0.83
Nov. 2017	1447.34	1889.6	17.2794	0.91	1.14
Dec. 2017	1519.668	1964.558	22.015	1.12	1.45
Jan. 2018	1552.899	2064.109	23.49882	1.14	1.12
Feb. 2018	1349.953	1761.26	19.16894	1.09	1.06
Mar 2018	1669.563	2050.364	20.96324	1.02	1.10
2017-18	24937.68	31733.85	266.2405	0.84	0.98

ALLOCATION OF POWER TO DISCOMS FOR 2017-18 FROM INTER STATE GENERATING STATIONS.

All figures in MW

Name of the Stn	Installed capacity	Total Un-allocated	Basic Allocation	Basic Allocation at periphery	Allocation out of Unallocated Quota	Allocation out of Un-allocation Quota at Delhi periphery	Total allocation at Delhi periphery
1	2	3	4	5	6	7	(8)=(5)+(7)
<u>NTPC STATIONS</u>							
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
TOTAL	9782	1302	2306	2016	0	0	2016
<u>NHPC</u>							
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
Dhaulti 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
TOTAL	4065	272	479	455	0	0	455

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)
<u>NPC</u>							
Narora APS	440	64	47	41	0	0	41
RAPP (C)	440	64	56	49	0	0	49
TOTAL	880	128	103	89	0	0	89
<u>SJVNL</u>							
Nathpa Jhakri HEP	1500	149	142	135	0	0	135
<u>THDC</u>							
Tehri Hydro	1000	99	63	60	0	0	60
Koteshwar HEP	400	40	39	37	0	0	37
TOTAL	1400	139	102	97	0	0	97
Total	17627	1990	3132	2793	0	0	2793
Allocation from ER and Tala HEP							
Farakka	1600	0	22	19	0	0	19
Kahalgaon	840	0	51	43	0	0	43
Talchar	1000	0	0	0	0	0	0
Tala HEP	1020	153	30	25	0	0	25
Kahalgaon-II	1500	0	157	131	0	0	131
Total ER	5960	153	261	217	0	0	217
Joint Venture							
Jhajjar TPS	1500	114	693	622	0	0	622
Ultra Mega Projects							
Sasan	3960	0	446	400	0	0	400
Grand Total	29047	2257	4531	4032	0	0	4032

13.2 ALLOCATION OF POWER TO DELHI DISCOMS FROM VARIOUS SOURCES

a) ALLOCATION OF POWER TO VARIOUS LICENSEES

i) ALLOCATION W.E.F. 01.04.2017 to 02.09.2017.

(Allocation In %)

SOURCES	LICENSEES					
	BRPL	BYPL	TPDDL	NDMC	MES	Total
BTPS	33.42	18.99	22.77	17.73	7.09	100.00
RPH	43.92	25.40	30.68	0.00	0.00	100.00
GT	61.031	8.589	30.25	0.00	0.00	99.87
Pragati	28.29	16.07	19.28	30.30	6.06	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	54.488	30.680	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	25.40	30.68	0.00	0.000	100.00
Tehri HEP	69.317	0.000	30.683	0.000	0.000	100.00
Koteshwar	69.320	0.000	30.680	0.000	0.000	100.00
Rihand-III	43.920	25.400	30.680	0.000	0.000	100.00
NHPC Stations	69.320	0.000	30.680	0.000	0.000	100.00

Note :-

- i) 0.13 MW allocated from unallocated quota from GT 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. 08.10.2016 as per DERC Tariff order for FY 2016-17.
- iii) Allocation from Dadri (Th)-I w.e.f. 01.09.2016 is as per NRPC allocation order.
- iv) Allocation from Tehri & Koteshwar HEP has been reallocated from BYPL to BRPL w.e.f. 15.03.2017
- v) 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%
- vi) Haryana and Punjab each has 10% share in Bawana CCGT

ii) **ALLOCATION W.E.F. 02.09.2017 to 31.03.2018.**

(Allocation In %)

SOURCES	LICENSEES					
	BRPL	BYPL	TPDDL	NDMC	MES	Total
BTPS	33.42	18.99	22.77	17.73	7.09	100.00
RPH	43.92	25.40	30.68	0.00	0.00	100.00
GT	12.206	8.589	30.251	48.8240	0.000	99.87
Pragati	28.29	16.07	19.28	30.30	6.06	100.00
Dadri Th-I	73.978	9.488	0.000	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	42.444	54.488	3.068	0.00	0.000	100.00
Aravali Jhajjar	0.00	11.43	88.57	0.00	0.000	100.00
Dadri Th-II	74.60	25.40	0.00	0.00	0.000	100.00
Tehri HEP	69.317	0.000	30.683	0.000	0.000	100.00
Koteshwar	69.320	0.000	30.680	0.000	0.000	100.00
Rihand-III	59.260	40.740	0.000	0.000	0.000	100.00
NHPC Stations	74.460	0.000	25.540	0.000	0.000	100.00

Note :-

- i) 0.35 MW is allocated from unallocated quota from GT to IP w.e.f 01.09.2016.
- 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. The swapping of power between TPDDL & BYPL from Sasan & BTPS has been done by DERC vide Tariff order for FY 2015-16 which has been stayed by ATE. Accordingly, allocation revised w.e.f. 04.05.2016. Further as per Commission's direction dated 31.08.2017, allocation from GT & Sasan has been changed w.e.f 03.09.2017 to 31.03.2018.
- iii) The surrendered power of 319 MW, 324 MW & 50MW of Jhajjar has been reallocated (given back to Delhi) as per NRPC order w.e.f. 01.03.2016, 01.04.2016 & 01.06.2016 respectively.
- iv) Allocation from Dadri(Th)-I w.e.f. 01.09.2015 & from Dadri-II w.e.f 05.08.16 is as per NRPC allocation order.
- v) Allocation from Tehri & Koteshwar HEP has been swapped from BYPL to BRPL w.e.f 15.03.2016. 20MW power has been allocated to MES from PPCL station w.e.f. 01.09.2016 as per DERC Order.
- vi) Allocation of BYPL from NHPC Sewa-II Station re-assigned to BRPL w.e.f 01.09.2016 to 31.03.2018 as per DERC order dt 24.08.2016.
- vii) Allocation from other CSGs are 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 2017-18

All figures in MU

Months	BRPL Energy Sale to				
	BYPL	MES	NDMC	TPDDL	Total
Apr 2017	0.000000	0.000000	0.000000	0.000000	0.000000
May 2017	0.000000	0.000000	0.000000	0.000000	0.000000
Jun 2017	0.003750	0.000000	0.000000	0.000000	0.003750
July 2017	0.064190	0.000000	0.000000	0.000000	0.064190
Aug 2017	0.217053	0.000000	0.000000	0.000000	0.217053
Sept 2017	0.000000	0.000000	0.000000	0.000000	0.000000
Oct. 2017	0.000000	0.000000	0.000000	0.000119	0.000119
Nov. 2017	0.000000	0.002034	0.000000	0.000000	0.002034
Dec. 2017	0.000000	0.000000	0.000000	0.000000	0.000000
Jan. 2018	0.000000	0.007519	0.000000	0.000000	0.007519
Feb. 2018	0.000000	0.000000	0.000000	0.000000	0.000000
Mar 2018	0.000000	0.033560	0.000000	0.000000	0.033560
Total 2017-18	0.284993	0.043113	0.000000	0.000119	0.328225

Months	BYPL Energy Sale to				
	BRPL	MES	NDMC	TPDDL	Total
Apr 2017	0.002500	0.000000	0.000000	0.000000	0.002500
May 2017	0.009809	0.000000	0.000000	0.000000	0.009809
Jun 2017	0.000000	0.000000	0.000000	0.000000	0.000000
July 2017	0.000000	0.000000	0.000000	0.000000	0.000000
Aug 2017	0.000000	0.000000	0.000000	0.000000	0.000000
Sept 2017	0.672336	0.000000	0.000000	0.000000	0.672336
Oct. 2017	0.143486	0.000000	0.000000	0.131160	0.274646
Nov. 2017	0.000000	0.000000	0.000000	0.000000	0.000000
Dec. 2017	0.067500	0.000000	0.000000	0.000000	0.067500
Jan. 2018	2.396124	0.101727	0.000000	0.000000	2.497851
Feb. 2018	0.182679	0.017411	0.000000	0.000000	0.200089
Mar 2018	0.000000	0.008085	0.000000	0.000000	0.008085
Total 2017-18	3.474433	0.127222	0.000000	0.131160	3.732815

Months	MES Energy Sale to				
	BRPL	BYPL	NDMC	TPDDL	Total
Apr 2017	0.000000	0.000000	0.000000	0.000000	0.000000
May 2017	0.000000	0.000000	0.000000	0.000000	0.000000
Jun 2017	0.000000	0.000000	0.000000	0.000000	0.000000
July 2017	0.000000	0.000000	0.000000	0.000000	0.000000
Aug 2017	0.000000	0.000000	0.000000	0.000000	0.000000
Sept 2017	0.000000	0.000000	0.000000	0.000000	0.000000
Oct. 2017	0.000000	0.000000	0.000000	0.000000	0.000000
Nov. 2017	0.000000	0.000000	0.000000	0.000000	0.000000
Dec. 2017	0.000000	0.000000	0.000000	0.000000	0.000000
Jan. 2018	0.000000	0.000000	0.000000	0.000000	0.000000
Feb. 2018	0.000000	0.000000	0.000000	0.000000	0.000000
Mar 2018	0.000000	0.000000	0.000000	0.000000	0.000000
Total 2017-18	0.000000	0.000000	0.000000	0.000000	0.000000

Months	NDMC Energy Sale to				
	BRPL	BYPL	MES	TPDDL	Total
Apr 2017	0.000000	0.000000	0.000000	0.000000	0.000000
May 2017	0.000000	0.000000	0.000000	0.000000	0.000000
Jun 2017	0.000000	0.000000	0.000000	0.000000	0.000000
July 2017	0.000000	0.000000	0.000000	0.000000	0.000000
Aug 2017	0.000000	0.000000	0.000000	0.000000	0.000000
Sept 2017	0.000000	0.000000	0.000000	0.000000	0.000000
Oct. 2017	0.000000	0.000000	0.000000	0.000000	0.000000
Nov. 2017	0.000000	0.000000	0.000000	0.000000	0.000000
Dec. 2017	0.000000	0.000000	0.000000	0.000000	0.000000
Jan. 2018	0.000000	0.000000	0.000000	0.000000	0.000000
Feb. 2018	0.000000	0.000000	0.000000	0.000000	0.000000
Mar 2018	0.000000	0.000000	0.000000	0.000000	0.000000
Total 2017-18	0.000000	0.000000	0.000000	0.000000	0.000000

Months	TPDDL Energy Sale to				
	BRPL	BYPL	MES	NDMC	Total
Apr 2017	3.539923	0.000000	0.146327	0.000000	3.686250
May 2017	2.293942	0.000000	0.000000	0.000000	2.293942
Jun 2017	0.366179	0.880571	0.000000	0.000000	1.246750
July 2017	0.194750	5.304251	0.000000	0.000000	5.499001
Aug 2017	1.210002	19.544403	0.000000	0.000000	20.754405
Sept 2017	1.703735	0.000000	0.000000	0.000000	1.703735
Oct. 2017	0.086726	0.140974	0.000000	0.000000	0.227700
Nov. 2017	0.004171	0.000000	0.120925	0.000000	0.125096
Dec. 2017	0.032356	0.000000	0.000000	0.000000	0.032356
Jan. 2018	0.000000	0.039445	0.041539	0.000000	0.080983
Feb. 2018	5.035752	0.080928	0.368932	0.000000	5.485611
Mar 2018	0.310261	0.710584	0.429263	0.000000	1.450108
Total 2017-18	14.777796	26.701155	1.106986	0.000000	42.585936

14.2 Inter Discom Transfer of surplus power to avoid penalty on the basis of Actual Energy Meter data (IDT-II)

All figures in MU

Month	BRPL Sale Energy To				
	BYPL	TPDDL	NDMC	MES	Total
Apr 2017	--	--	--	--	--
May 2017	--	--	--	--	--
Jun 2017	--	--	--	--	--
July 2017	--	--	--	--	--
Aug 2017	--	--	--	--	--
Sept 2017	--	--	--	--	--
Oct. 2017	0.069417	0.037603	0.131179	0.037937	0.276137
Nov. 2017	0.012683	0.141964	0.014027	0.077079	0.245753
Dec. 2017	0.005086	0.010581	0.027717	0.095807	0.139191
Jan. 2018	0.010345	0.124101	0.001644	0.497463	0.633553
Feb. 2018	0.013250	0.035265	0.019722	0.302703	0.370939
Mar 2018	0.052169	0.051207	0.003700	0.304700	0.411777
Total 2017-18	0.162950	0.400723	0.197989	1.315688	2.077350

All figures in MU

Month	Sale Energy To				Total
	BYPL	TPDDL	NDMC	MES	
Apr 2017	--	--	--	--	--
May 2017	--	--	--	--	--
Jun 2017	--	--	--	--	--
July 2017	--	--	--	--	--
Aug 2017	--	--	--	--	--
Sept 2017	--	--	--	--	--
Oct. 2017	0.021533	0.014950	0.010573	0.019045	0.066101
Nov. 2017	0.008033	0.076729	0.052388	0.078585	0.215735
Dec. 2017	0.171916	0.003422	0.043186	0.028671	0.247195
Jan. 2018	0.008631	0.018511	0.000000	0.077940	0.105081
Feb. 2018	0.596739	0.023459	0.013916	0.022756	0.656870
Mar 2018	0.000000	0.007658	0.000000	0.018023	0.025681
Total 2017-18	0.806852	0.144729	0.120063	0.245019	1.316663

Month	Sale Energy To				Total
	TPDDL	BYPL	NDMC	MES	
Apr 2017	--	--	--	--	--
May 2017	--	--	--	--	--
Jun 2017	--	--	--	--	--
July 2017	--	--	--	--	--
Aug 2017	--	--	--	--	--
Sept 2017	--	--	--	--	--
Oct. 2017	0.076625	0.103101	0.056671	0.078043	0.314439
Nov. 2017	0.001610	0.018393	0.019242	0.062705	0.101949
Dec. 2017	0.234971	0.104486	0.012099	0.035966	0.387522
Jan. 2018	0.001129	0.020876	0.006082	0.248372	0.276459
Feb. 2018	0.028876	0.003805	0.000000	0.048412	0.081093
Mar 2018	0.006419	0.010843	0.009905	0.033508	0.060675
Total 2017-18	0.349630	0.261503	0.104000	0.507006	1.222139

All figures in MU

Month	Sale Energy To				Total
	BRPL	BYPL	TPDDL	MES	
Apr 2017	--	--	--	--	--
May 2017	--	--	--	--	--
Jun 2017	--	--	--	--	--
July 2017	--	--	--	--	--
Aug 2017	--	--	--	--	--
Sept 2017	--	--	--	--	--
Oct. 2017	0.054862	0.113405	0.354468	0.030375	0.553110
Nov. 2017	0.041022	0.052450	0.226901	0.092370	0.412743
Dec. 2017	0.385423	0.189382	0.085525	0.323781	0.984111
Jan. 2018	0.117671	0.166882	0.300059	1.212605	1.797216
Feb. 2018	0.297190	0.088438	0.063231	0.628985	1.077845
Mar 2018	0.022973	0.037792	0.016680	0.119688	0.197132
Total 2017-18	0.919141	0.648349	1.046864	2.407804	5.022158

Month	Sale Energy To				Total
	BRPL	BYPL	TPDDL	MES	
Apr 2017	--	--	--	--	--
May 2017	--	--	--	--	--
Jun 2017	--	--	--	--	--
July 2017	--	--	--	--	--
Aug 2017	--	--	--	--	--
Sept 2017	--	--	--	--	--
Oct. 2017	0.140290	0.157796	0.161129	0.154885	0.614100
Nov. 2017	0.001110	0.011741	0.043075	0.000592	0.056518
Dec. 2017	0.073991	0.005133	0.000337	0.000000	0.079463
Jan. 2018	0.000000	0.000000	0.000561	0.000000	0.000561
Feb. 2018	0.105031	0.014896	0.014848	0.000000	0.134775
Mar 2018	0.001203	0.011024	0.003144	0.004179	0.019550
Total 2017-18	0.321625	0.200590	0.223094	0.159657	0.904966

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 1/4/2018

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 Total
	Discom	220/66/33KV V	11/6.6KV	TOTAL		220/66/33KV	11/6.6KV	TOTAL		
1	TPDDL	70	36	106	83	60	0	60	47	130
2	BRPL	105	41	146	93	80	08	88	69	162
3	BYPL	73	19	92	55	66	1	67	50	105
4	NDMC	37	5	42	38	31	4	35	35	73
5	MES	8	7	15	15	8	7	15	15	30
6	N.RAILWAY	3	0	3	3	3	0	3	3	6
	TOTAL	296	108	404	287	248	20	268	219	506
	GRAND TOTAL			672	506					

15.2 For Generating Stations (Meters provided by DTL)

Sr. No.	Station	Metering points (feeders)	Main	Check
			Nos. of meters as per beneficiary utility	Nos. of meters as per beneficiary utility
01	PPCL BWN	0	4	4
02	RPH	11	2	2
03	G.T.	8	2	2
04	Pragati	3	3	-
05	BTPS	6	6	6
	TOTAL	28	17	14

- a) No. of Meters involved for Intrastate = 287 (M)+ 219 (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 = 564

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 2017-18 at Intrastate Level are as under:

15.4.1 DSM Transactions of TPDDL

Month	Scheduled Drawal in Mus	Actual drawal in Mus	Deviation in Mus	Deviation Amount in Lakhs	ADDI Deviation Amount in Lakhs	NET Deviation in Lakhs	Deviation Charges with out Caping
Apr-17	824.292971	815.518076	-8.774895	-70.187554	20.860213	-49.32734	-135.80987
May-17	972.539818	960.367153	-12.172665	-122.162711	15.341209	-106.82150	-211.58750
Jun-17	948.423504	940.552836	-7.870668	-59.097074	11.828465	-47.26861	-130.88921
Jul-17	964.768812	966.316115	1.547303	115.607662	25.482610	141.09027	59.77060
Aug-17	980.812766	979.013183	-1.799582	39.670031	12.339726	52.00976	-19.13742
Sep-17	906.982311	908.007644	1.025334	92.067436	13.667629	105.73506	53.22459
Oct-17	783.176620	775.004118	-8.172502	-115.776261	4.282561	-111.49370	-159.48739
Nov-17	602.083415	610.526338	8.442923	263.780069	48.423446	312.20351	253.98690
Dec-17	627.199123	628.517317	1.318195	102.503568	10.196779	112.70035	87.62515
Jan-18	639.419629	642.101821	2.673607	119.045478	17.335425	136.38090	95.47081
Feb-18	567.606785	568.610083	1.003298	52.854105	5.499181	58.35329	46.07971
Mar-18	640.166153	646.163561	5.997409	202.250853	13.046961	215.29781	189.99710
Total	9457.471906	9440.698247	-16.782243	620.555602	198.304205	818.85981	129.24345

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	Deviation in Mus	Deviation Amount in Lakhs	ADDI Deviation Amount in Lakhs	NET Deviation in Lakhs	Deviation Charges with out Caping
Apr-17	1129.771549	1129.418900	-0.352648	96.476332	18.508111	114.98444	33.33342
May-17	1430.702056	1420.975962	-9.726094	-98.494083	22.547993	-75.94609	-202.69736
Jun-17	1411.301788	1399.333857	-11.967931	-26.638707	34.692283	8.05358	-143.82061
Jul-17	1445.449920	1454.628494	9.178574	307.801930	33.249281	341.05121	245.72072
Aug-17	1431.162612	1430.280892	-0.881720	111.484483	20.566028	132.05051	41.26164
Sep-17	1273.360821	1275.610651	2.249831	164.448056	28.644876	193.09293	102.32155
Oct-17	1063.913613	1058.064589	-5.849024	-93.828036	7.990032	-85.83800	-133.05422
Nov-17	740.930116	741.406469	0.476354	100.092782	19.333790	119.42657	54.96480
Dec-17	763.007060	779.479629	16.472569	451.817332	96.444362	548.26169	441.29606
Jan-18	839.641271	834.038963	-5.602308	-68.917020	18.401354	-50.51567	-94.97419
Feb-18	693.748835	697.381930	3.633094	134.721502	10.296900	145.01840	110.80643
Mar-18	819.922149	814.495070	-5.427079	-63.230028	8.704859	-54.52517	-119.95304
Total	13042.911789	13035.115406	-7.796383	1015.734544	319.379868	1335.11441	335.20520

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	Deviation in Mus	Deviation Amount in Lakhs	ADDI Deviation Amount in Lakhs	NET Deviation in Lakhs	Deviation Charges with out Caping
Apr-17	639.620418	647.489731	6.657973	170.555736	22.895629	193.45136	163.88164
May-17	782.784145	791.225141	7.583110	196.433679	22.335673	218.76935	185.01580
Jun-17	776.216515	783.072955	6.082189	183.153177	34.260372	217.41355	155.49722
Jul-17	800.045955	800.784335	0.067300	60.989770	14.351722	75.34149	29.53734
Aug-17	804.172112	805.823124	0.561302	69.216332	8.473438	77.68977	41.63321
Sep-17	722.930664	726.239961	2.694328	129.734286	11.382846	141.11713	103.06578
Oct-17	614.276584	616.844045	2.593270	86.599431	2.792558	89.39199	81.09313
Nov-17	415.540224	417.479957	1.939732	69.284117	4.084773	73.36889	61.10503
Dec-17	420.411562	425.230139	4.818577	157.986826	41.809179	199.79601	153.88264
Jan-18	435.862499	441.718490	5.855991	171.463236	20.259824	191.72306	169.15068
Feb-18	379.073784	380.939931	1.866147	69.417472	6.455774	75.87325	57.02007
Mar-18	453.194888	459.641132	6.446244	191.283399	13.666728	204.95013	184.05364
Total	7244.129348	7296.488941	47.166165	1556.117461	202.768516	1758.88598	1384.93618

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	Deviation in Mus	Deviation Amount in Lakhs	ADDI Deviation Amount in Lakhs	NET Deviation in Lakhs	Deviation Charges with out Caping
Apr-17	145.575683	125.411054	-20.164629	-380.594259	0.085170	-380.50909	-408.93987
May-17	168.808665	152.445006	-16.363659	-333.388453	0.166280	-333.22217	-337.16448
Jun-17	154.204785	150.919123	-3.285662	-43.961455	0.164294	-43.79716	-54.03914
Jul-17	163.681449	159.532191	-4.149258	-85.202115	0.047580	-85.15454	-87.19429
Aug-17	166.883503	157.366513	-9.516990	-155.878930	0.106324	-155.77261	-175.01734
Sep-17	153.372063	139.971031	-13.401032	-247.025224	0.119469	-246.90575	-283.40631
Oct-17	121.774479	117.001602	-4.772877	-91.625279	0.550041	-91.07524	-97.58794
Nov-17	91.060166	86.953434	-4.106732	-85.808511	0.245774	-85.56274	-86.93413
Dec-17	96.381257	90.092343	-6.288914	-128.217751	0.067344	-128.15041	-128.99808
Jan-18	109.920692	99.642922	-10.277770	-221.928722	0.000000	-221.92872	-222.61704
Feb-18	88.443317	79.351873	-9.091443	-201.251015	0.378847	-200.87217	-203.60427
Mar-18	97.365006	94.025640	-3.339366	-66.810876	0.021359	-66.78952	-70.92272
Total	1557.471064	1452.712732	-104.758333	-2041.692589	1.952482	-2039.74011	-2156.42562

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	Scheduled Drawal in Mus	Actual drawal in Mus	Deviation in Mus	Deviation Amount in Lakhs	ADDI Deviation Amount in Lakhs	NET Deviation in Lakhs	Deviation Charges with out Caping
Apr-17	24.291652	19.610008	-4.681644	-97.564477	0.000000	-97.56448	-97.56448
May-17	27.114925	22.478709	-4.636216	-88.898999	0.000000	-88.89900	-88.89900
Jun-17	25.277708	23.061585	-2.216123	-34.261609	0.000000	-34.26161	-34.26161
Jul-17	28.757633	23.397032	-5.360601	-106.508283	0.000000	-106.50828	-106.80026
Aug-17	31.123263	24.188043	-6.935220	-129.747594	0.000000	-129.74759	-129.74759
Sep-17	27.739496	21.869496	-5.870000	-131.606596	0.000000	-131.60660	-131.60660
Oct-17	22.694220	18.855767	-3.838453	-103.388128	0.000000	-103.38813	-103.38813
Nov-17	14.260056	15.958610	1.698554	52.661366	0.000000	52.66137	52.66137
Dec-17	15.811994	19.228157	3.416162	97.416132	0.000000	97.41613	97.41613
Jan-18	16.632816	23.113309	6.480493	177.583994	0.000000	177.58399	177.58399
Feb-18	13.953995	15.811065	1.857070	45.931860	0.000000	45.93186	45.93186
Mar-18	12.154490	14.860637	2.706147	71.111795	0.000000	71.11180	71.11180
Total	259.812249	242.432418	-17.379830	-247.270540	0.000000	-247.27054	-247.56252

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 RPH

Month	Scheduled Drawal in Mus	Actual drawal in Mus	Deviation in Mus	Deviation Amount in Lakhs	ADDI Deviation Amount in Lakhs	NET Deviation in Lakhs	Deviation Charges with out Caping
Apr-17	-0.504000	-0.418698	0.085302	-1.765816	0.000000	-1.76582	-1.89902
May-17	-0.520800	-0.625226	-0.104426	2.509764	0.000000	2.50976	2.83656
Jun-17	-0.504000	-0.526117	-0.022117	0.181332	0.000000	0.18133	0.08449
Jul-17	-0.520800	-0.396502	0.124298	-2.523649	0.000000	-2.52365	-2.72922
Aug-17	-0.520800	-0.544969	-0.024169	0.650635	0.000000	0.65063	0.67642
Sep-17	-0.504000	-0.430132	0.073868	-1.403390	0.000000	-1.40339	-1.42449
Oct-17	-0.520800	-0.484457	0.036343	-0.574200	0.000000	-0.57420	-0.55441
Nov-17	-0.504000	-0.285618	0.218383	-5.098176	0.000000	-5.09818	-5.68803
Dec-17	-0.520800	-0.321011	0.199789	-4.121086	0.000000	-4.12109	-4.48382
Jan-18	-0.520800	-0.183519	0.337281	-7.358280	0.000000	-7.35828	-7.99541
Feb-18	-0.470400	-0.230204	0.240196	-5.180114	0.000000	-5.18011	-5.47197
Mar-18	-0.520800	-0.307170	0.213630	-4.864874	0.000000	-8.50404	-9.15237
Total	-6.132000	-4.753623	1.378377	-29.547854	0.000000	-33.18702	-35.80126

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 GT

Month	Scheduled Drawal in Mus	Actual drawal in Mus	Deviation in Mus	Deviation Amount in Lakhs	ADDI Deviation Amount in Lakhs	NET Deviation in Lakhs	Deviation Charges with out Caping
Apr-17	40.988500	41.139266	0.150766	-2.107505	0.000000	-2.10750	-2.10750
May-17	48.665000	48.824981	0.159981	-4.447774	0.000000	-4.44777	-4.44777
Jun-17	52.420750	52.455480	0.034730	2.986216	0.065816	3.05203	2.77392
Jul-17	41.017250	41.126841	0.109591	-0.818887	0.001019	-0.81787	-0.81889
Aug-17	39.510900	39.642132	0.131232	-3.036434	0.004466	-3.03197	-3.03643
Sep-17	78.410000	78.405155	-0.004845	1.100548	1.088562	2.18911	0.66447
Oct-17	58.126500	58.230364	0.103864	1.412925	0.093519	1.50644	0.84275
Nov-17	50.390750	50.368013	-0.022737	1.966920	0.000000	1.96692	1.96692
Dec-17	31.799850	31.819425	0.019575	-1.260018	0.000000	-1.26002	-1.26002
Jan-18	41.760000	41.605141	-0.154859	4.798276	0.013330	4.81161	4.47571
Feb-18	30.116733	30.121159	0.004426	-0.039299	0.030777	-0.00852	-0.03930
Mar-18	43.488000	43.341440	-0.146560	5.606377	0.000000	1.80928	1.70418
Total	556.694233	557.079397	0.385164	6.161344	1.297489	3.66174	0.71804

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 Pragati

Month	Scheduled Drawal in Mus	Actual drawal in Mus	Deviation in Mus	Deviation Amount in Lakhs	ADDI Deviation Amount in Lakhs	NET Deviation in Lakhs	Deviation Charges with out Caping
Apr-17	126.434000	126.735948	0.301948	-6.167738	0.057784	-6.10995	-6.16774
May-17	114.789500	114.959688	0.170188	-1.017417	0.011896	-1.00552	-1.01742
Jun-17	120.112500	120.176940	0.064440	-0.893897	0.784439	-0.10946	-0.89390
Jul-17	127.145250	127.209984	0.064734	-0.380529	0.000000	-0.38053	-0.38053
Aug-17	182.668750	182.606490	-0.062260	-2.579697	3.107639	0.52794	-2.57970
Sep-17	188.278000	188.531777	0.253777	-5.573243	0.878941	-4.69430	-6.12469
Oct-17	198.275000	198.477114	0.202114	-4.276810	2.320998	-1.95581	-4.27681
Nov-17	183.987750	184.456140	0.468390	-11.715901	1.750135	-9.96577	-12.55677
Dec-17	196.283250	196.440714	0.157464	-5.995030	0.995518	-4.99951	-6.49771
Jan-18	195.091000	195.664890	0.573890	-11.757024	0.184301	-11.57272	-11.91785
Feb-18	178.839854	179.067684	0.227830	-3.062121	0.038350	-3.02377	-5.26436
Mar-18	93.637750	94.036674	0.398924	-9.420889	1.578188	5.00566	3.64929
Total	1905.542604	1908.364043	2.821439	-62.840295	11.708190	-38.28375	-54.02816

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 BTPS

Month	Scheduled Drawal in Mus	Actual drawal in Mus	Deviation in Mus	Deviation Amount in Lakhs	ADDI Deviation Amount in Lakhs	NET Deviation in Lakhs	Deviation Charges with out Caping
Apr-17	178.080000	172.097820	-5.982180	109.632034	1.266871	110.89891	116.34753
May-17	243.364500	234.075780	-9.288720	178.854701	15.723648	194.57835	194.19009
Jun-17	213.281625	207.945708	-5.335917	97.902050	2.504431	100.40648	102.79333
Jul-17	236.595175	230.969868	-5.625307	104.823607	0.841587	105.66519	110.74868
Aug-17	245.524613	239.831988	-5.692624	103.362813	1.036110	104.39892	108.39483
Sep-17	214.657025	207.643812	-7.013213	130.892954	1.329925	132.22288	136.10939
Oct-17	116.320250	111.724596	-4.570063	84.730744	0.025313	84.75606	88.42266
Nov-17	0.000000	-2.398104	-2.423606	43.365050	0.000000	43.36505	45.36944
Dec-17	0.000000	-1.995180	-2.033779	37.577813	0.000000	37.57781	39.52187
Jan-18	0.000000	-2.067912	-2.098480	38.304804	0.008787	38.31359	39.92454
Feb-18	0.000000	-1.375656	-1.373352	25.642293	0.000000	25.64229	26.83811
Mar-18	0.000000	-1.793328	-1.814764	34.827776	0.000000	31.16096	32.61049
Total	1447.823188	1394.659392	-53.252005	989.916640	22.736673	1008.98650	1041.27096

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 Bawana

Month	Scheduled Drawal in Mus	Actual drawal in Mus	Deviation in Mus	Deviation Amount in Lakhs	ADDI Deviation Amount in Lakhs	NET Deviation in Lakhs	Deviation Charges with out Caping
Apr-17	183.579250	184.276053	0.696803	-16.823170	0.030111	-16.79306	-16.95569
May-17	198.486500	198.990848	0.504348	-10.491609	4.121943	-6.36967	-12.41510
Jun-17	188.802000	187.678983	-1.123017	28.029662	16.221266	44.25093	27.88273
Jul-17	327.820000	327.135200	-0.684800	7.779405	0.000000	7.77940	7.57474
Aug-17	320.294000	320.471060	0.177060	-3.965838	5.212788	1.24695	-4.21870
Sep-17	253.836250	254.226908	0.408964	-10.885001	3.812790	-7.07221	-11.09938
Oct-17	255.306000	254.755479	-0.550521	17.960745	13.001558	30.96230	15.67548
Nov-17	201.679750	201.935245	0.255495	-5.761749	3.531354	-2.23039	-8.86422
Dec-17	209.438250	210.423638	0.985388	-23.535508	0.204415	-23.33109	-25.71757
Jan-18	268.900880	268.970030	0.069149	-3.442377	8.303754	4.86138	-5.74137
Feb-18	196.554500	196.102242	-0.452258	9.661922	4.344942	14.00686	8.75098
Mar-18	240.160750	239.601040	-0.559710	14.099940	7.036065	17.14991	10.05983
Total	2844.858130	2844.566725	-0.273099	2.626422	65.820986	64.46131	-15.06827

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 31.03.2018.

DETAILS OF THE CAPACITORS INSTALLED IN DELHI SYSTEM LUMPED TO THE NEAREST 220KV GRID SUB-STATIONS AS ON 31.03.2018 IS AS UNDER:-
(All figures in MVAR)

S. No.	SUB-STATION	Name of Utility	INSTALLED CAPACITY			
			66kV	33kV	11kV	TOTAL
1	IP YARD	DTL		30.00		30.00
1	Kamla Market	BYPL			16.35	16.35
2	Minto Road	BYPL				0.00
3	GB Pant Hosp	BYPL			10.48	10.48
4	Delhi Gate	BYPL			16.30	16.30
5	Tilakmarg	NDMC			5.04	5.04
7	Cannaught Place	NDMC			10.08	10.08
8	Kilokri	BRPL		0.00	10.48	10.48
9	NDSE-II	BRPL				0.00
11	Nizamuddin	BRPL				0.00
12	Exhibition-I	BRPL				0.00
13	Exhibition-II	BRPL				0.00
14	Defence Colony	BRPL				0.00
15	IG Stadium	BYPL		10.08	5.45	15.53
16	Lajpat Nagar	BRPL				0.00
17	IP Estate	BYPL			10.90	10.90
18	D.D.U.Marg	BYPL			10.80	10.80
	Total		0.00	40.08	95.88	135.96
2	Electric Lane					
1	Electric Lane	NDMC			5.04	5.04
2	Scindia House	NDMC			10.44	10.44
3	Mandi House	NDMC			10.80	10.80
4	Raisina Road	NDMC			10.08	10.08
5	Raja Bazar	NDMC			10.08	10.08
	Total		0.00	0.00	46.44	46.44
3	RPH Station	IPGCL		20.00		20.00
1	Lahori Gate	BYPL			10.49	10.49
2	Jama Masjid	BYPL			10.48	10.48
4	Kamla Market	BYPL				0.00
5	Minto Road	BYPL			10.90	10.90
6	GB Pant Hosp	BYPL				0.00
7	IG Stadium	BYPL				0.00
	Total		0.00	20.00	31.87	51.87

S. No.	SUB-STATION	Name of Utility	INSTALLED CAPACITY			
			66KV	33kV	11kV	TOTAL
4	Parkstreet S/stn	DTL	20.00	20.00		40.00
1	Shastri Park	BYPL		0.00	5.45	5.45
2	Faiz Road	BYPL			18.05	18.05
3	Motia Khan	BYPL			16.30	16.30
4	Prasad Nagar	BYPL			16.25	16.25
5	Anand Parbat	BYPL			10.80	10.80
6	Shankar Road	BYPL			10.44	10.44
7	Rama Road	TPDDL			0.00	0.00
8	Baird Road	NDMC			10.08	10.08
9	Hanuman Road	NDMC			10.08	10.08
10	Pusa	TPDDL			5.44	5.44
11	Ridge Valley	BRPL			0.00	0.00
12	B. D. Marg	NDMC			5.40	5.40
13	Nirman Bhawan	NDMC			5.04	5.04
	Total		20.00	20.00	113.33	153.33
5	Naraina S/stn	DTL		20.00	5.04	25.04
1	DMS	BYPL			10.85	10.85
2	Mayapuri	BRPL		10.87	10.40	21.27
3	Inderpuri	TPDDL		13.26	5.04	18.30
4	Rewari line	TPDDL				0.00
5	Khyber Lane	MES		10.05		10.05
6	Kirbi Place	MES		10.05		10.05
7	Payal	TPDDL			10.08	10.08
8	A-21 Naraina	TPDDL			4.80	4.80
8	Saraswati Garden	TPDDL			10.08	10.08
	Total		0.00	64.23	56.29	120.52
6	Mehrauli S/stn	DTL	80.00		5.04	85.04
1	Adchini	BRPL			14.61	14.61
2	Andheria Bagh	BRPL			10.85	10.85
3	IIT	BRPL			10.90	10.90
4	JNU	BRPL			10.03	10.03
5	Bijwasan	BRPL			15.47	15.47
6	DC Saket	BRPL		10.08	9.98	20.06
7	Malviya Nagar	BRPL				0.00
8	C Dot	BRPL			23.08	23.08
9	Vasant kunj B-Blk	BRPL	21.79		10.90	32.69
10	Vasant kunj C-Blk	BRPL	20.16		10.48	30.64

S. No.	SUB-STATION	Name of Utility	INSTALLED CAPACITY			
			66KV	33kV	11kV	TOTAL
11	Palam	BRPL				0.00
12	IGNOU	BRPL			14.54	14.54
13	R. K. Puram-I	BRPL			10.07	10.07
14	Vasant Vihar	BRPL			19.25	19.25
15	Pusp Vihar	BRPL			10.44	10.44
16	Bhikaji Cama Place	BRPL		10.08	10.07	20.15
17	Fatehpuri	BRPL			14.40	14.40
	Total		121.95	20.16	200.11	342.22
7	Vasantkunj S/stn	DTL	40.00		5.04	45.04
1	R. K. Puram-II	BRPL			10.80	10.80
2	Vasant kunj C-Blk	BRPL				0.00
3	Vasant kunj D-Blk	BRPL			9.63	9.63
4	Ridge Valley	BRPL				0.00
	Total		40.00	0.00	25.47	65.47
8	Okhla S/stn	DTL	60.00	10.00	5.04	75.04
1	Balaji	BRPL			10.80	10.80
2	East of Kailash	BRPL			15.89	15.89
3	Alaknanda	BRPL			16.30	16.30
4	Malviya Nagar	BRPL	21.79	20.16	10.85	52.80
5	Masjid Moth	BRPL			16.30	16.30
6	Nehru Place	BRPL			21.34	21.34
7	Okhla Ph-I	BRPL	21.79		16.30	38.09
8	Okhla Ph-II	BRPL		20.93	15.47	36.40
9	Shivalik	BRPL			10.80	10.80
10	Batra	BRPL			15.90	15.90
11	VSNL	BRPL			10.90	10.90
12	Siri Fort	BRPL			10.49	10.49
13	Tuglakabad	BRPL			18.05	18.05
	Total		103.58	51.09	194.43	349.10
9	Lodhi Road S/stn	DTL			20.00	20.00
1	Defence Colony	BRPL			14.85	14.85
2	Hudco	BRPL			10.90	10.90
3	Lajpat Nagar	BRPL			10.90	10.90
4	Nizamuddin	BRPL			10.44	10.44
5	Vidyut Bhawan (Shahjahan Rd)	NDMC			10.80	10.80
6	Ex. Gr. II	BRPL			0.00	0.00
7	IHC	BRPL			0.00	0.00
	Total		0.00	0.00	77.89	77.89

S. No.	SUB-STATION	Name of Utility	INSTALLED CAPACITY			
			66KV	33kV	11kV	TOTAL
10	Sarita Vihar S/stn	DTL	20.00		5.04	25.04
1	Sarita Vihar	BRPL			10.07	10.07
2	MCIE	BRPL			17.26	17.26
3	Mathura Road	BRPL			11.69	11.69
4	Jamia Millia	BRPL			10.89	10.89
5	Sarai Julena	BRPL			16.29	16.29
6	Jasola	BRPL			5.44	5.44
7	Meethapur	BRPL			14.40	14.40
	Total		20.00	0.00	91.08	111.08
11	Wazirabad					
1	Bhagirathi	BYPL		14.40	18.10	32.50
2	Ghonda	BYPL	0.00	22.56	15.94	38.50
3	Seelam Pur	BYPL		10.08	21.39	31.47
4	Dwarkapuri	BYPL			22.66	22.66
5	Nandnagri	BYPL	20.01		16.35	36.36
6	Yamuna Vihar	BYPL			14.40	14.40
7	East of Loni Road	BYPL			18.00	18.00
8	Shastri Park	BYPL			10.90	10.90
9	Karawal Nagar	BYPL			5.40	5.40
10	Sonia Vihar	BYPL			14.70	14.70
	Total		20.01	47.04	157.84	224.89
12	Geeta Colony					
1	Geeta Colony	BYPL			10.49	10.49
2	Kanti Nagar	BYPL			18.10	18.10
3	Kailash Nagar	BYPL			15.48	15.48
4	Seelam Pur	BYPL				0.00
5	Shakar Pur	BYPL			10.80	10.80
6	Krishna Nagar	BYPL			14.40	14.40
	Total		0.00	0.00	69.27	69.27
13	Gazipur S/stn	DTL	40.00		5.04	45.04
1	Dallupura	BYPL	0.00		18.10	18.10
2	Vivek Vihar	BYPL			9.57	9.57
3	GT Road	BYPL			10.85	10.85
4	Kondli	BYPL	20.00		5.04	25.04
5	MVR-I	BYPL			10.90	10.90
6	MVR-II	BYPL	20.00		10.44	30.44
7	PPG Ind. Area	BYPL			10.06	10.06
8	New Kondli	BYPL			10.80	10.80
	Total		80.00	0.00	90.80	170.80

S. No.	SUB-STATION	Name of Utility	INSTALLED CAPACITY			
			66KV	33kV	11kV	TOTAL
14	Patparganj S/stn	DTL	40.00	20.00	5.04	65.04
1	GH-I	BYPL	19.89		15.85	35.74
2	GH-II	BYPL	20.09		18.10	38.19
3	CBD	BYPL		10.03	15.48	25.51
4	Guru Angad Nagar	BYPL			15.49	15.49
5	Karkadooma	BYPL		10.80	10.44	21.24
6	Preet Vihar	BYPL			10.08	10.08
7	CBD-II	BYPL			10.80	10.80
8	Shakarpur	BYPL				0.00
9	Jhilmil	BYPL			10.80	10.80
10	Dilshad Garden	BYPL	20.16		15.48	35.64
11	Khichripur	BYPL	21.79		15.89	37.68
12	Mother Dairy	BYPL				0.00
13	Scope Building	BYPL				0.00
14	Vivek Vihar	BYPL			7.20	7.20
15	Akhardham	BYPL			14.60	14.60
	Total		121.93	40.83	165.25	328.01
15	Najafgarh S/stn	DTL	60.00		5.04	65.04
1	A4 Paschim Vihar	BRPL			10.80	10.80
2	Nangloi	BRPL	21.73		15.84	37.57
3	Nangloi W/W	BRPL	20.89		10.85	31.74
4	Pankha Road	BRPL			15.88	15.88
5	Jaffarpur	BRPL			26.23	26.23
7	Inst. Area Janakpuri (Sagarpur)	BRPL			17.60	17.60
8	Paschimpuri	BRPL		10.05	15.47	25.52
9	Paschim Vihar	BRPL	41.83		15.43	57.26
10	Mukherjee Park	BRPL			20.83	20.83
11	Udyog Nagar	BRPL			10.43	10.43
12	Choukhandi	BRPL			10.07	10.07
13	DJB Najafgarh	BRPL			21.60	21.60
	Total		144.45	10.05	196.07	350.57
16	Pappankalan-I S/stn	DTL	20.00		5.04	25.04
1	Bindapur Grid G-3 PPK	BRPL	21.73		15.85	37.58
2	Bodella-I	BRPL	20.10		21.70	41.80
3	Bodella-II	BRPL	21.73		17.64	39.37
4	DC Janakpuri	BRPL			10.03	10.03
5	G-2 PPK (Nasirpur)	BRPL			16.20	16.20
6	G-5 PPK (Matiala)	BRPL			22.71	22.71

S. No.	SUB-STATION	Name of Utility	INSTALLED CAPACITY			
			66KV	33kV	11kV	TOTAL
7	G-6 PPK	BRPL			12.60	12.60
8	G-7 PPK	BRPL			21.60	21.60
9	G-15 PPK	BRPL			10.80	10.80
10	Harinagar	BRPL			16.25	16.25
11	Rewari line	TPDDL			5.44	5.44
	Total		83.56	0.00	175.86	259.42
17	BBMB Rohtak Road					
1	S.B. Mill	BRPL			10.07	10.07
2	Rama Road	TPDDL			10.88	10.88
3	Ram Pura	TPDDL			10.48	10.48
4	Rohtak Road	TPDDL			10.08	10.08
5	Vishal	BRPL			10.40	10.40
6	Madipur	BRPL			10.43	10.43
7	Sudershan Park	TPDDL			10.08	10.08
8	Kirti Nagar	TPDDL			7.20	7.20
	Total		0.00	0.00	79.62	79.62
18	Shalimarbagh S/stn	DTL		40.00	6.00	46.00
1	S.G.T. Nagar	TPDDL			7.20	7.20
2	Ashok Vihar	TPDDL			0.00	0.00
3	Haiderpur	TPDDL			11.39	11.39
4	SMB FC	TPDDL			12.64	12.64
5	Rani Bagh	TPDDL			14.40	14.40
6	SMB KHOSLA	TPDDL			7.20	7.20
	Total		0.00	40.00	58.83	98.83
19	Subzimandi S/stn	DTL			6.00	6.00
1	Shakti Nagar	TPDDL			5.04	5.04
2	Gulabibagh	TPDDL			10.88	10.88
3	Shahzadabagh	TPDDL			15.79	15.79
4	DU	TPDDL			7.20	7.20
5	Tripolia	TPDDL			10.88	10.88
6	B. G. Road	BYPL			5.40	5.40
	Total		0.00	0.00	61.19	61.19
20	Narela S/stn	DTL	40.00		5.04	45.04
1	A-7 Narela	TPDDL			10.88	10.88
2	Azad Pur	TPDDL			22.80	22.80
3	Badli	TPDDL	20.00		5.95	25.95
4	DSIDC Narela-1	TPDDL			5.95	5.95

S. No.	SUB-STATION	Name of Utility	INSTALLED CAPACITY			
			66KV	33kV	11kV	TOTAL
5	GTK	TPDDL			8.44	8.44
6	Jahangirpuri	TPDDL	20.00	10.00	0.00	30.00
7	Bhalswa	TPDDL			12.64	12.64
8	Pitampura-I	TPDDL	20.00		12.24	32.24
9	RG-1	TPDDL			7.20	7.20
	Total		100.00	10.00	91.14	201.14
21	Gopalpur S/stn	DTL		30.00	5.04	35.04
1	Hudson Lane	TPDDL			5.95	5.95
2	Wazirabad	TPDDL			7.20	7.20
3	Indra Vihar	TPDDL			5.04	5.04
4	DIFR	TPDDL				0.00
5	GTK Road	TPDDL			8.44	8.44
6	Jahangirpuri	TPDDL	20.00	20.00	7.20	47.20
7	Civil lines	TPDDL			7.20	7.20
8	Pitam Pura-3	TPDDL			7.20	7.20
9	SGT Nagar	TPDDL			13.15	13.15
10	Tiggipur	TPDDL			10.88	10.88
11	Model Town	TPDDL			14.40	14.40
12	Azad Pur	TPDDL			22.80	22.80
13	Dheerpur	TPDDL			14.40	14.40
	Total		20.00	50.00	128.90	198.90
22	Rohini S/stn	DTL	40.00		6.00	46.00
1	Rohini Sec-22	TPDDL			18.08	18.08
2	Rohini Sec-24	TPDDL			7.20	7.20
3	Rohini-3	TPDDL			5.95	5.95
4	Rohini-4	TPDDL			11.39	11.39
5	Rohini-5	TPDDL			11.39	11.39
6	Rohini-6	TPDDL			0.00	0.00
7	Mangolpuri-2	TPDDL	20.00		7.20	27.20
8	Pitam Pura-1	TPDDL			0.00	0.00
9	Pitam Pura-2	TPDDL			10.48	10.48
10	Rohini DC-1	TPDDL			14.40	14.40
11	AIR Kham pur	TPDDL			11.90	11.90
	Total		60.00	0.00	103.99	163.99
23	Kanjhawala S/stn	DTL	20.00		5.04	25.04
1	Bawana Clear Water	TPDDL			14.30	14.30
2	Pooth Khoord	TPDDL	20.00		7.20	27.20
4	Rohini -2	TPDDL			13.15	13.15
	Total		40.00	0.00	39.69	79.69

S. No.	SUB-STATION	Name of Utility	INSTALLED CAPACITY			
			66KV	33kV	11kV	TOTAL
24	BAWANA S/stn					
1	Bawana S/stn No. 6	TPDDL			10.88	10.88
2	Bawana S/stn No. 7	TPDDL			7.20	7.20
	Total		0.00	0.00	18.08	18.08
25	Kashmeregata S/stn	DTL			5.04	5.04
1	Civil lines	TPDDL			7.20	7.20
2	Town Hall	BYPL			8.64	8.64
3	Fountain	BYPL			5.45	5.45
	Total		0.00	0.00	26.33	26.33
26	Pappankalan-II					
1	DMRC	BRPL				0.00
2	HASTAL	BRPL			21.60	21.60
3	GGSH	BRPL			10.80	10.80
4	66kV G-4	BRPL			21.60	21.60
	Total		0.00	0.00	54.00	54.00
27	Trauma Center (AIIMS)					
1	AIIMS	NDMC		13.26	5.04	18.30
2	Trauma Center	NDMC			10.08	10.08
3	Netaji Nagar	NDMC			15.12	15.12
4	Sanjay Camp	NDMC			10.08	10.08
5	Kidwai Nagar	NDMC			10.08	10.08
6	SJ Airport	NDMC			5.04	5.04
7	Race Course	NDMC			10.44	10.44
	Total		0.00	13.26	65.88	79.14
28	MUNDKA					
1	Mangolpuri-I	TPDDL			19.10	19.10
2	Rohini Sec-23	TPDDL	20.00		14.20	34.20
3	66kV Mundka	BRPL			21.60	21.60
	Total		20.00	0.00	54.90	74.90
29	DSIDC BAWANA					
1	DSIDC NRL-1	TPDDL	0.00			0.00
2	DSIDC NRL-2	TPDDL			21.60	21.60
3	Bawana Clear Water	TPDDL			21.60	21.60
4	Bawana-1	TPDDL			14.40	14.40
	Total		0.00	0.00	57.60	57.60

S. No.	SUB-STATION	Name of Utility	INSTALLED CAPACITY			
			66KV	33kV	11kV	TOTAL
30	RIDGE VALLEY					
1	Keventry Diary	NDMC			10.08	10.08
2	Nehru Park	NDMC			5.04	5.04
3	State Guest House	NDMC			5.40	5.40
4	Bapu Dham	NDMC			15.48	15.48
5	66kV Vasant Kunj Inst. Area	BRPL			21.60	21.60
	Total		0.00	0.00	57.60	57.60
31	IP EXTN (PRAGATI)					
1	Vidyut Bhawan	NDMC			10.08	10.08
2	Dalhousie Road	NDMC			5.04	5.04
3	National Archives	NDMC			10.08	10.08
4	School Lane	NDMC			10.44	10.44
	Total		0.00	0.00	35.64	35.64
32	Wazirpur					
1	Tri Nagar	TPDDL			14.80	14.80
2	Wazirpur-1	TPDDL			18.80	18.80
3	Wazirpur-2	TPDDL			13.20	13.20
4	Ashok vihar	TPDDL			20.47	20.47
5	Azad Pur	TPDDL			22.80	22.80
6	GTK	TPDDL			8.44	8.44
	Total		0.00	0.00	98.51	98.51
33	Peeragarhi					
1	Rani Bagh	TPDDL			0.00	0.00
2	Rani Bagh cc	TPDDL			9.60	9.60
	Total		0.00	0.00	9.60	9.60
34	Rohini-II					
1	Rohini-6	TPDDL			13.15	13.15
2	Siraspur	TPDDL			14.80	14.80
	Total		0.00	0.00	27.95	27.95

Utility	HT	LT	Total
BYPL	903.49	102.00	1005.49
BRPL	1257.93	242.00	1499.93
TPDDL*	969.12	119.00	1088.12
NDMC	259.86	24.00	283.86
DTL	753.52	0.00	753.52
IPGCL (RPH)	20.00	0.00	20.00
MES	20.10	0.00	20.10
TOTAL	4184.02	487.00	4671.02

16.2 REACTIVE ENERGY TRANSACTIONS OF DISCOMS WITH DTL

TPDDL					
Month	MVARh Drawal		Amount in Rs. Lacs		Net Amount in Rs. Lacs
	High Voltage	Low Voltage	High Voltage	Low Voltage	
Apr-17	1087.400	1642.300	-1.52236	2.29922	0.77686
May-17	416.600	2495.200	-0.58324	3.49328	2.91004
Jun-17	-2565.000	3828.000	3.59100	5.35920	8.95020
Jul-17	-3519.100	137.500	4.92674	0.19250	5.11924
Aug-17	71.000	2675.200	-0.09940	3.74528	3.64588
Sep-17	-2917.700	420.400	4.08478	0.58856	4.67334
Oct-17	-1785.800	-1515.200	2.50012	-2.12128	0.37884
Nov-17	-26400.800	-929.200	36.96112	-1.30088	35.66024
Dec-17	-26807.900	-846.700	37.53106	-1.18538	36.34568
Jan-18	-36238.800	-1112.000	50.73432	-1.55680	49.17752
Feb-18	-32820.900	1189.600	45.94926	1.66544	47.61470
Mar-18	-28182.100	-674.200	39.45494	-0.94388	38.51106
Total	-159663.100	7310.900	223.52834	10.23526	233.76360

BRPL					
Month	MVARh Drawal		Amount in Rs. Lacs		Net Amount in Rs. Lacs
	High Voltage	Low Voltage	High Voltage	Low Voltage	
Apr-17	40683.300	7902.700	-56.95662	11.06378	-45.89284
May-17	-3146.500	9446.200	4.40510	13.22468	17.62978
Jun-17	-7224.800	13832.200	10.11472	19.36508	29.47980
Jul-17	-4695.900	13973.700	6.57426	19.56318	26.13744
Aug-17	-8435.600	10505.900	11.80984	14.70826	26.51810
Sep-17	-5407.800	11107.700	7.57092	15.55078	23.12170
Oct-17	-9391.300	-222.600	13.14782	-0.31164	12.83618
Nov-17	-39650.200	3997.300	55.51028	5.59622	61.10650
Dec-17	-58813.800	6228.000	82.33932	8.71920	91.05852
Jan-18	-62569.100	-7835.000	87.59674	-10.96900	76.62774
Feb-18	-56001.100	-22.200	78.40154	-0.03108	78.37046
Mar-18	-33992.300	-3311.900	47.58922	-4.63666	42.95256
Total	-248645.100	6560.200	348.10314	91.84280	439.94594

BYPL					
Month	MVARh Drawal		Amount in Rs. Lacs		Net Amount in Rs. Lacs
	High Voltage	Low Voltage	High Voltage	Low Voltage	
Apr-17	3627.200	5366.200	-5.07808	7.51268	2.43460
May-17	1917.800	9469.900	-2.68492	13.25786	10.57294
Jun-17	1408.000	18262.400	-1.97120	25.56736	23.59616
Jul-17	1681.200	5568.000	-2.35368	7.79520	5.44152
Aug-17	-1217.500	4822.800	1.70450	6.75192	8.45642
Sep-17	6792.500	315.800	-9.50950	0.44212	-9.06738
Oct-17	17011.100	-3358.100	-23.81554	-4.70134	-28.51688
Nov-17	853.600	-50.800	-1.19504	-0.07112	-1.26616
Dec-17	-7403.000	-3718.800	10.36420	-5.20632	5.15788
Jan-18	-15946.500	-4436.100	22.32510	-6.21054	16.11456
Feb-18	-12539.800	-3360.200	17.55572	-4.70428	12.85144
Mar-18	-8095.600	-3601.800	11.33384	-5.04252	6.29132
Total	-11911.000	25279.300	16.67540	35.39102	52.06642

NDMC					
Month	MVARh Drawal		Amount in Rs. Lacs		Net Amount in Rs. Lacs
	High Voltage	Low Voltage	High Voltage	Low Voltage	
Apr-17	7812.600	1492.400	-10.93764	2.08936	-8.84828
May-17	3004.100	2930.900	-4.20574	4.10326	-0.10248
Jun-17	3118.600	4179.200	-4.36604	5.85088	1.48484
Jul-17	4631.600	3130.100	-6.48424	4.38214	-2.10210
Aug-17	4928.400	996.800	-6.89976	1.39552	-5.50424
Sep-17	5890.900	432.000	-8.24726	0.60480	-7.64246
Oct-17	8101.400	-120.200	-11.34196	-0.16828	-11.51024
Nov-17	-36.100	-240.200	0.05054	-0.33628	-0.28574
Dec-17	-3664.500	243.100	5.13030	0.34034	5.47064
Jan-18	-3948.400	-76.200	5.52776	-0.10668	5.42108
Feb-18	-4297.200	-77.700	6.01608	-0.10878	5.90730
Mar-18	-2691.100	956.200	3.76754	1.33868	5.10622
Total	22850.300	13846.400	-31.99042	19.38496	-12.60546

MES					
Month	MVARh Drawal		Amount in Rs. Lacs		Net Amount in Rs. Lacs
	High Voltage	Low Voltage	High Voltage	Low Voltage	
Apr-17	99.900	1992.900	-0.13986	2.79006	2.65020
May-17	29.200	2786.000	-0.04088	3.90040	3.85952
Jun-17	55.700	2946.500	-0.07798	4.12510	4.04712
Jul-17	35.000	4237.600	-0.04900	5.93264	5.88364
Aug-17	37.700	1912.800	-0.05278	2.67792	2.62514
Sep-17	157.100	566.800	-0.21994	0.79352	0.57358
Oct-17	1619.200	166.000	-2.26688	0.23240	-2.03448
Nov-17	394.700	275.900	-0.55258	0.38626	-0.16632
Dec-17	738.700	48.700	-1.03418	0.06818	-0.96600
Jan-18	438.000	214.800	-0.61320	0.30072	-0.31248
Feb-18	813.000	70.800	-1.13820	0.09912	-1.03908
Mar-18	191.900	147.800	-0.26866	0.20692	-0.06174
Total	4610.100	15366.600	-6.45414	21.51324	15.05910

TOTAL DISCOMS					
Month	MVARh Drawal		Amount in Rs. Lacs		Net Amount in Rs. Lacs
	High Voltage	Low Voltage	High Voltage	Low Voltage	
Apr-17	53310.400	18396.500	-74.63456	25.75510	-48.87946
May-17	2221.200	27128.200	-3.10968	37.97948	34.86980
Jun-17	-5207.500	43048.300	7.29050	60.26762	67.55812
Jul-17	-1867.200	27046.900	2.61408	37.86566	40.47974
Aug-17	-4616.000	20913.500	6.46240	29.27890	35.74130
Sep-17	4515.000	12842.700	-6.32100	17.97978	11.65878
Oct-17	15554.600	-5050.100	-21.77644	-7.07014	-28.84658
Nov-17	-64838.800	3053.000	90.77432	4.27420	95.04852
Dec-17	-95950.500	1954.300	134.33070	2.73602	137.06672
Jan-18	-118264.800	-13244.500	165.57072	-18.54230	147.02842
Feb-18	-104846.000	-2199.700	146.78440	-3.07958	143.70482
Mar-18	-72769.200	-6483.900	101.87688	-9.07746	92.79942
Total	-392758.800	127405.200	549.86232	178.36728	728.22960

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

17. **TRANSMISSION SYSTEM AVAILABILITY OF DELHI TRANSCO LTD. FOR THE YEAR 2017-18**

Elements	Apr-17		May-17		Jun-17		Jul-17	
	No of elements	Availability	No of elements	Availability	No of elements	Availability	No of elements	Availability
400kV, 220kV, 66kV, 33kV, 11kV AC Tx Lines	630	99.379	631	99.704	637	99.725	637	99.876
400/220kV, 220/66kV, 220/33kV, 66/33kV, 66/11kV, 33/11kV Power Transformer/ ICT	162	97.214	162	97.928	162	98.504	162	99.098
66kV, 33kV, 11kV Capacitor Banks	59	99.870	59	99.196	58	99.878	58	99.862
Total availability of the month	99.000		99.331		99.504		99.727	

Elements	Aug-17		Sep-17		Oct-17		Nov-17	
	No of elements	Availability	No of elements	Availability	No of elements	Availability	No of elements	Availability
400kV, 220kV, 66kV, 33kV, 11kV AC Tx Lines	638	99.701	638	99.297	640	99.960	644	99.662
400/220kV, 220/66kV, 220/33kV, 66/33kV, 66/11kV, 33/11kV Power Transformer/ ICT	163	98.662	163	98.728	163	99.307	163	98.344
66kV, 33kV, 11kV Capacitor Banks	58	99.973	58	99.888	58	99.964	58	99.933
Total availability of the month	99.522		99.228		99.836		99.431	

Elements	Dec-17		Jan-18		Feb-18		Mar-18	
	No of elements	Availability	No of elements	Availability	No of elements	Availability	No of elements	Availability
400kV, 220kV, 66kV, 33kV, 11kV AC Tx Lines	649	99.745	652	99.820	650	99.469	654	99.567
400/220kV, 220/66kV, 220/33kV, 66/33kV, 66/11kV, 33/11kV Power Transformer/ ICT	163	96.937	163	97.001	164	96.666	164	96.440
66kV, 33kV, 11kV Capacitor Banks	58	99.934	58	99.923	58	99.962	58	99.964
Total availability of the month	99.231		99.300		99.064		99.007	

Annual Transmission System Availability of DTL : 99.348%

18. NEW ELEMENTS COMMISSIONED IN TRANSMISSION SYSTEM

The following transmission system elements added during the year 2017-18

S. No.	Name of the Element	Date and time of energization
220kV System		
1	LILO of 220kV Bamnauli-Naraina Ckt-II at Pappankalan-I	220kV Bamnauli-Pappankalan-I Ckt-III charged from Bamnauli on 08.11.2017 at 18:40hrs and its CB at Pappankalan-I was closed on 08.11.2017 at 19:40hrs. 220kV Pappankalan-I-Naraina Ckt charged from Pappankalan-I on 08.11.2018 at 19:40hrs and its CB at Naraina was closed on 08.11.2017 at 19:44hrs.
2	LILO of 220kV Bamnauli-Naraina Ckt-I at Pappankalan-III	220kV Bamnauli-Pappankalan-III Ckt-I charged from Bamnauli on 27.12.2017 at 17:13hrs and its CB at Pappankalan-III was closed on 27.12.2017 at 17:15hrs. 220kV Pappankalan-III-Naraina Ckt charged from Pappankalan-III on 27.12.2017 at 18:50hrs and its CB at Naraina was closed on 27.12.2017 at 21:41 hrs.
3	LILO of 220kV Bamnauli-Pappankalan-I Ckt-III at Pappankalan-III	220kV Bamnauli-Pappankalan-III Ckt-II charged from Bamnauli on 27.12.2017 at 17:13hrs and its CB at Pappankalan-III was closed on 27.12.2017 at 17:30hrs. 220kV Pappankalan-III-Pappankalan-I Ckt charged from Pappankalan-III on 27.12.2017 at 18:03 hrs and its CB at Pappankalan-I was closed on 27.12.2017 at 18:57 hrs.
	220kV Shalimar Bagh- DMRC Ckt-II	Ckt charged from Shalimar Bagh on 08.03.2018 at 15:25 hrs.
4	220/33kV 100MVA TR-III at Masjid Moth	Tr. charged on no load on 05.06.2017 at 18:40hrs. and load was taken on 06.06.2017 at 15:00hrs.
5	220/33kV 100MVA TR-III at Lodhi Road (Replacement of damaged Tx)	Tr. charged on no load on 18:08:2017 at 19:43 hrs. and load was taken on 21:08.:2017 at 12:32hrs.
6	220/33kV 100MVA TR-I at Peera Garhi	Tr. charged on no load on 20:07.2017 at 18:02hrs. and load was taken on 21:02:2018 at 12:02hrs.
7	220/66kV 160MVA TR -I at Pappankalan-III	Tr. charged on no load on 24.02.2018 at 18:31hrs.
8	220/66kV 160MVA TR -II at Pappankalan-III	Tr. charged on no load on 26.03.2018 at 18:03hrs.

66kV System		
1	66kV Narela Sub City Ckt-I at 220kV DSIDC Bawana S/Stn.	Ckt charged on 01.04.2017 at 08:50 hrs.
2	66kV Narela Sub City Ckt-II at 220kV DSIDC Bawana S/Stn.	Ckt charged on 01.04.2017 at 08:52 hrs.
3	66kV Bhalaswa Ckt at 220kV Gopal pur S/Stn.	Ckt charged on 08.04.2017 at 17:53 hrs.
4	66kV SGTN Ckt-I at 220kV Shalimar Bagh S/Stn.	Ckt charged on 12.05.2017 at 18:12 hrs.
5	66kV SGTN Ckt-II at 220kV Shalimar Bagh S/Stn.	Ckt charged on 12.05.2017 at 18:34 hrs.
6	66kV PP-I Ckt-I at 220kV Shalimar Bagh S/Stn.	Ckt charged on 12.05.2017 at 18:24 hrs.
7	66kV PP-I Ckt-II at 220kV Shalimar Bagh S/Stn.	Ckt charged on 12.05.2017 at 18:31 hrs.
8	66kV I/C-I at 220kV Shalimar Bagh S/Stn. (Earlier 33kV I/C-I)	I/C charged on 12.05.2017 at 18:12 hrs.
9	66kV Jasola Ckt at 220kV Sarita Vihar S/Stn.	Ckt charged on 12.05.2017 at 18:31 hrs.
10	66kV Mithapur Ckt at 220kV Sarita Vihar S/Stn.	Ckt charged on 15.07.2017 at 17:20 hrs.
11	66kV Shastri Park Ckt-III at 220kV Wazirabad S/Stn.	Ckt charged on 25.10.2017 at 17:38 hrs.
12	66kV Shastri Park Ckt-IV at 220kV Wazirabad S/Stn.	Ckt charged on 25.10.2017 at 17:38 hrs.
13	66kV DMRC Ckt-II at 220kV Gazipur S/Stn.	Ckt charged on 24.10.2017 at 18:50 hrs.
14	66kV DMRC Ckt-II at 220kV Sarita Vihar S/Stn.	Ckt charged on 02.12.2017 at 14:50 hrs.
15	66kV Fatehpur Beri Ckt-I at 220kV Mehrauli S/Stn.	Ckt charged on 28.12.2017 at 16:50 hrs.
16	66kV Fatehpur Beri Ckt-II at 220kV Mehrauli S/Stn.	Ckt charged on 16.01.2018 at 18:15 hrs.
17	66kV Karala Ckt-I at 220kV Kanjhawala S/Stn.	Ckt charged on 29.03.2018 at 23:45 hrs.
18	66kV Karala Ckt-II at 220kV Kanjhawala S/Stn.	Ckt charged on 29.03.2018 at 23:45 hrs.

33kV System		
1	33kV Sudharshan Park Ckt at 220kV Peeragarhi S/Stn.	Ckt charged on 05.04.2017 at 14:54 hrs.
2	33kV CBD Ckt-I at 220kV Preet Vihar S/Stn.	Ckt charged on 05.05.2017 at 20:11hrs.
3	33kV Preet Vihar Ckt at 220kV Preet Vihar S/Stn.	Ckt charged on 05.05.2017 at 19:21hrs.
4	33kV C Block Krishna Ckt-I at 220kV Geeta Colony S/Stn.	Ckt charged on 17.01.2018 at 19:45hrs.
5	33kV C Block Krishna Ckt-II at 220kV Geeta Colony S/Stn.	Ckt charged on 18.01.2018 at 18:10hrs.
6	33kV Guru Angad Nagar Ckt at 220kV Preet Vihar S/Stn.	Ckt charged on 29.03.2018 at 17:28hrs.

19 TRIPPINGS / BREAK-DOWNS IN 400/220KV SYSTEM FOR THE YEAR 2017-18

19.1 DETAILS OF 400/220KV BREAKDOWN/TRIPPINGS OCCURRED IN DTL SYSTEM DURING THE MONTH APRIL 2017

S.N.	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME (HRS)		DATE	TIME (HRS)	
1	1.4.17	03:15	RAJGHAT 220/33KV 100MVA TX-I	1.4.17	03:55	TR. TRIPPED ON BUCHHOLZ.
2	1.4.17	10:08	GAZIPUR 66/11KV, 20MVA TX-II	1.4.17	17:35	TR. TRIPPED ON DIFFERENTIAL.
3	1.4.17	12:08	220KV BAWANA - KANJHAWALA CKT-2	1.4.17	18:54	AT KHANJAWALA : RYB PHASE, 86. AT BAWANA CKT. DID NOT TRIP.
4	1.4.17	12:08	220KV BAWANA - KANJHAWALA CKT-1	1.4.17	15:01	AT BAWANA : O/C, 86, DIST PROT ,ZONE-I. AT KHANJAWALA : NO TRIPPING.
5	1.4.17	15:55	SARITA VIHAR 66/11KV, 20MVA TX-I	1.4.17	16:30	TR. TRIPPED ON OLTC BUCHHOLZ, 86.
6	2.4.17	14:10	220KV SARITA VIHAR - BTPS CKT.-I	2.4.17	17:52	AT BTPS : DIST PROT. DIST 0.5KM. AT SARITA VIHAR : CB KEPT OPEN.
7	2.4.17	15:35	MEHRAULI 220/66KV 160MVA TX-I	2.4.17	16:05	66KV I/C TRIPPED ON O/C, E/F. 66KV C-BLOCK -2 TRIPPED ON 86 TRIP RELAY. R PHASE CT DAMAGED.
8	3.4.17	21:40	ROHINI 220/66KV 100MVA TX-II	3.4.17	21:55	66KV I/C-2 TRIPPED WITHOUT INDICATION, 66KV ROHINI DIST CENTER CKT-I TRIPPED ON DIST PROT, ZONE-I, B PHASE. 66KV C PHASE CT DAMAGED. DC CKT-I ENERGIZED ON 04.04.17 AT 19.48HRS.
9	3.4.17	21:40	ROHINI 220/66KV 100MVA TX-I	3.4.17	21:55	
10	3.4.17	22:00	NARELA 220/66KV 100MVA TX-II	3.4.17	22:13	TR. TRIPPED ON 86.
11	4.4.17	11:20	220KV HARSH VIHAR - PREET VIHAR CKT-I	5.4.17	11:20	AT PREET VIHAR CKT. TRIPPED ON BUS BAR PROT.
12	4.4.17	11:20	PREETVIHAR 220/33KV 100MVA TX-I	5.4.17	11:20	TR. TRIPPED ALONGWITH 200KV PREET VIHAR - HARSH VIHAR CKT. -I.
13	4.4.17	12:17	220KV BAWANA - KANJHAWALA CKT-2	4.4.17	15:03	AT BAWANA : DIST PROT, ZONE-I, DIST 2.30KM. AT KHANJAWALA : CB KEPT OPEN. SPARKING OBSERVED AT TOWER NO 211.
14	4.4.17	12:32	220KV WAZIRABAD - MANDOLA CKT-IV	4.4.17	13:04	AT WAZIRABAD : DIST PROT, ZONE-I, E/F. AT MANDOLA : DIST PROT, ZONE-I, DIST 6.7KM.
15	4.4.17	18:30	INDRAPRASTHA POWER 220/33KV 100MVA TX-II	4.4.17	18:58	33KV I/C-II TRIPPED ON E/F. SPARKING ON 33KV BAY NO 22 (TIE BAY).
16	4.4.17	18:30	INDRAPRASTHA POWER 220/33KV 100MVA TX-I	4.4.17	18:56	33KV I/C-I TRIPPED ON 86, 51NX. SPARKING ON 33KV BAY NO 22 (TIE BAY).
17	5.4.17	08:44	220KV MAHARANI BAGH - LODHI ROAD CKT-I	06.05.17	15:05	AT MAHARANI BAGH : DIST PROT, ZONE-I, Y PHASE BUSHING CABLE END BOX DAMAGED.
18	6.4.17	07:36	220KV BAWANA-SHALIMARBAGH CKT-II	6.4.17	08:03	AT SHALIMARBAGH CKT. TRIPPED ON 96 A&B.
19	6.4.17	14:06	220KV BAMNAULI-NARAINA CKT-II	6.4.17	14:20	AT BAMNAULI : DIST PROT, ZONE-I. AT NARAINA : DIST PROT, ABC PHASE.
20	6.4.17	14:19	220KV BAMNAULI - DIAL CKT-I	6.4.17	20:13	AT BAMNAULI : DIST PROT, DIST 1.560MTS., 186A&B, E/F. R PHASE JUMPER SNAPPED ON TOWER NO 107.
21	7.4.17	00:15	OKHLA 220/33KV 100MVA TX-V	7.4.17	00:20	TR. TRIPPED ON 86, O/C. 33KV ALAKHNANDA CKT-II TRIPPED ON O/C, E/F, RYB PHASE.
22	7.4.17	07:23	SUBZI MANDI 33/11KV, 16MVA TX-I	7.4.17	07:38	TR. TRIPPED ON GEN TRIP. MONKEY ELECTROCUTED.

S.N.	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME (HRS)		DATE	TIME (HRS)	
23	8.4.17	01:15	ROHINI 220/66KV 100MVA TX-III	8.4.17	01:58	TR. TRIPPED DUE TO BUS BAR PROTECTION OPERATION.
24	8.4.17	01:15	220KV ROHINI-SHALIMARBAGH CKT-I	8.4.17	01:58	CKT. TRIPPED DUE TO BUS BAR PROTECTION OPERATION.
25	8.4.17	01:15	220KV ROHINI-SHALIMARBAGH CKT-II	8.4.17	01:58	CKT. TRIPPED DUE TO BUS BAR PROTECTION OPERATION.
26	8.4.17	07:50	GOPALPUR 220/33KV 100MVA TX-III	8.4.17	14:35	TR. TRIPPED WITHOUT INDICATION, FLASH ON Y PHASE TOP CLAMP.
27	8.4.17	12:40	220KV MEHRAULI - VASANT KUNJ CKT. - II	8.4.17	12:47	AT MEHRAULI CKT. TRIPPED WITHOUT INDICATION. AT VASANT KUNJ CKT. DID NOT TRIP.
28	9.4.17	11:45	220KV GAZIPUR - MAHARANIBAGH CKT. -II	9.4.17	17:01	AT MAHARANI BAGH CKT. TRIPPED ON DIST PROT, DIST 4.4KM, Y&B PHASE. AT GAZIPUR CKT. TRIPPED ON DIST PROT, ZONE-I.
29	9.4.17	11:45	220KV GAZIPUR - MAHARANIBAGH CKT. -I	9.4.17	17:01	AT MAHARANI BAGH CKT. TRIPPED Y&B PHASE. AT GAZIPUR CKT. DID NOT TRIPPED.
30	9.4.17	14:44	220KV MEHRAULI - BTPS CKT. - I	9.4.17	17:26	AT BTPS CKT. TRIPPED ON DIST PROT, ZONE-I, DIST 2.0KM AT MEHRAULI CKT. TRIPPED ON DIST PROT, ZONE-I.
31	11.4.17	11:50	SARITA VIHAR 66/11KV, 20MVA TX-I	11.4.17	12:35	11KV I/C-I TRIPPED ALONGWITH 11KV FEEDERS.
32	11.4.17	12:24	220KV NARELA - MANDOLA CKT-II	11.4.17	12:51	AT MANDOLA CKT. TRIPPED ON DIST PROT, ZONE-I, DIST 18.97KM. AT NARELA CKT. TRIPPED ON DIST PROT, ZONE-I, DIST 5.124KM.
33	11.4.17	13:58	220KV BAWANA - KANJHAWALA CKT - I	11.4.17	20:56	AT KHANJAWALA CKT. TRIPPED ON DIST PROT, ZONE-I, DIST 14.38KM
34	12.4.17	12:48	220KV BAMNAULI-NAJAFGARH CKT-I	12.4.17	13:44	AT BAMNAULI CKT. TRIPPED ON DIST PROT, ZONE-I.
35	12.4.17	14:15	220KV MEHRAULI - BTPS CKT. - I	12.4.17	15:00	AT MEHRAULI CKT. TRIPPED ON DIST PROT, ZONE-I, DIST 14.13KM, ABC PHASE. AT BTPS CKT. TRIPPED ON DIST PROT., ZONE-I, DIST 7.1KM, B PHASE E/F.
36	12.4.17	14:35	220KV BAWANA - KANJHAWALA CKT - I	12.4.17	18:12	AT KHANJAWALA CKT. TRIPPED ON 86.
37	13.4.17	02:18	400KV DADRI-HARSH VIHAR CKT-I	13.4.17	05:31	AT DADRI CKT. TRIPPED ON DIST PROT, ZONE-I, DIST 21.1KM. AT HARSH VIHAR CKT. DID NOT TRIP.
38	13.4.17	13:28	220KV NARELA - MANDOLA CKT-I	13.4.17	18:03	AT NARELA CKT. TRIPPED ON DIST PROT, ZONE-I, ABC PHASE, 186. AT MANDOLA CKT. TRIPPED ON DIST PROT, ZONE-I, R PHASE.
39	13.4.17	13:28	220KV NARELA - MANDOLA CKT-II	13.4.17	18:03	AT NARELA CKT. TRIPPED ON DIST PROT, ZONE-II, DIST 13.90KM, B PHASE. AT MANDOLA CKT. TRIPPED ON DIST PROT, ZONE-II, B PHASE.
40	13.4.17	13:46	400KV DADRI - HARSH VIHAR CKT. - II	13.4.17	16:48	AT HARSH VIHAR CKT. TRIPPED ON DIST PROT, ZONE-I. AT DADRI CKT. TRIPPED ON DIST PROT, DIST 3.1KM.
41	13.4.17	18:10	OKHLA 220/66KV 100MVA TX-II	13.4.17	18:40	66KV I/C-II TRIPPED ON E/F.
42	14.4.17	07:55	PARKSTREET 220/33KV 100MVA TX-I	14.4.17	08:17	TR. TRIPPED ON 86, INTERTRIP. I/C TRIPPED ON E/F.

S.N.	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME (HRS)		DATE	TIME (HRS)	
43	14.4.17	14:23	220KV BAWANA - KANJHAWALA CKT - I	14.4.17	22:21	AT BAWANA CKT TRIPPED ON RYB PHASE, DIST PROT, DIST.22.41KM.
44	14.4.17	14:23	220KV KANJHAWALA-NAJAFGARH CKT	14.4.17	15:21	AT KHANJAWALA CKT. TRIPPED ON DIST PROT, ZONE-II, DIST 17.26KM, RYB PHASE.
45	14.4.17	14:23	220KV MUNDKA-KANJHAWALA CKT	14.4.17	14:35	AT MUNDKA CKT. TRIPPED ON DIST PROT, ZONE-I, R PHASE.
46	14.4.17	14:25	KANJHAWALA 220/66KV 100MVA TX-I	15.4.17	16:46	TR. TRIPPED ON DIFFERENTIAL, GEN TRIP.
47	15.4.17	03:20	GOPALPUR 66KV JAHANGIRPURI CKT-II	15.4.17	19:20	CKT. TRIPPED ON DIST PROT, ZONE-I, B PHASE CT LEAKAGE, CAUGHT FIRE.
48	15.4.17	12:00	220KV NARELA - MANDOLA CKT-I	15.4.17	12:59	AT NARELA CKT. TRIPPED ON DIST PROT, ZONE-I, DIST. 20.33KM.
49	15.4.17	17:23	220KV DSIIDC BAWANA-NARELA CKT-II	15.4.17	17:49	AT NARELA BUS BAR PORT. OPERATED.
50	15.4.17	17:23	NARELA 220/66KV 100MVA TX-I	15.4.17	17:52	TR. -I TRIPPED DUE TO OPERATOIN OF BUS BAR PROT. OPERATED.
51	15.4.17	17:23	NARELA 220/66KV 100MVA TX-II	15.4.17	17:52	TR. -II TRIPPED DUE TO OPERATOIN OF BUS BAR PROT. OPERATED.
52	15.4.17	17:23	NARELA 220/66KV 100MVA TX-III	15.4.17	17:52	TR. -III TRIPPED DUE TO OPERATOIN OF BUS BAR PROT. OPERATED.
53	16.4.17	15:51	MUNDKA 220/66KV 160MVA TX-III	16.4.17	17:41	TR. TRIPPED ON 86A&B.
54	16.4.17	22:55	SARITA VIHAR 220/66KV 100MVA TX-II	17.4.17	17:14	TR. TRIPPED ON 86.
55	17.4.17	10:35	KANJHAWALA 66/11KV, 20MVA TX-I	17.4.17	12:45	TR. TRIPPED ON OLTC, 30G
56	17.4.17	13:57	220KV BAMNAULI - DIAL CKT-II	17.4.17	15:28	AT DIAL CKT. TRIPPED ON DIFFERENTIAL B PHASE. AT BAMNAULI CKT. TRIPPED ON DIST PROT, ZONE-I, DIST 1.607KM, C PHASE.
57	17.4.17	14:06	220KV GOPALPUR-MANDOLACKT-I	17.4.17	14:40	AT GOPALPUR CKT. TRIPPED ON DIST PROT, ZONE-I, DIST 9.915KM, R PHASE. AT MANDOLA CKT. TRIPPED ON DIST PROT, R PHASE.
58	17.4.17	15:38	220KV GAZIPUR - BTPS CKT	18.4.17	01:56	AT BTPS CKT. TRIPPED WITHOUT INDICATION. CKT. WAS AT OFF POSITION AT GAZIPUR.
59	17.4.17	18:40	SHALIMAR BAGH 33/11KV, 16MVA TX-I	17.4.17	19:10	I/C-I TRIPPED WITH HEAVY JERK ON O/C, SMOKE OBSERVED IN 11KV BADLI CKT. -I.
60	18.4.17	00:27	PAPPANKALAN-II 66KV G-5 MATIALA CKT-2	18.4.17	21:15	CKT. PUT OFF DUE TO FIRE OBSERVED IN CONTROL PANEL OF 66KV MTIALA CKT. -II.
61	18.4.17	15:52	220KV NARELA - MANDOLA CKT-II	18.4.17	16:03	AT NARELA CKT. TRIPPED WITHOUT INDICATION. AT MANDOLA CKT. DID NOT TRIP.
62	18.4.17	16:10	220KV NARELA - MANDOLA CKT-II	18.4.17	16:57	T NARELA CKT. TRIPPED WITHOUT INDICATION. AT MANDOLA CKT. DID NOT TRIP.
63	19.4.17	16:27	INDRAPRASTHA POWER 220/33KV 100MVA TX-III	19.4.17	16:44	33KV I/C-III TRIPPED ON O/C, E/F, 86.
64	20.4.17	05:14	220KV NARELA - MANDOLA CKT-II	20.4.17	11:06	AT NARELA CKT. TRIPPED ON 195A, 195BC, 195CC. NO TRIPPING AT MANDOLA

S.N.	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME (HRS)		DATE	TIME (HRS)	
65	20.4.17	09:05	220KV WAZIRABAD - MANDOLA CKT-I	20.4.17	12:44	AT WAZIRABAD CKT. TRIPPED ON DIST PROT, ZONE-I, II & III, DIST 14.02KM.
66	20.4.17	11:01	220KV BAWANA-DSIIDC BAWANA CKT-I	20.4.17	14:24	AT DSIDC CKT. TRIPPED ON DIST PROT, ZONE-I, DIST 3.7KM.
67	20.4.17	14:04	220KV GOPALPUR-MANDOLACKT-I	20.4.17	14:21	CKT. TRIPPED AT MANDOLA AT GOPALPUR SUPPLY FAILED.
68	20.4.17	20:43	PARKSTREET 33KV 10MVAR CAP. BANK-I	21.4.17	07:10	R PHASE CT BLAST.
69	22.4.17	13:30	NARAINA 220/33KV 100MVA TX-I	22.4.17	13:50	33KV I/C-I TRIPPED ON O/C, E/F.
70	22.4.17	13:30	NARAINA 220/33KV 100MVA TX-II	22.4.17	13:50	33KV I/C-II TRIPPED ON O/C.
71	22.4.17	14:06	NARAINA 220/33KV 100MVA TX-I	22.4.17	18:08	33KV I/C-I TRIPPED ON E/F. MASTER 86
72	23.4.17	06:10	220KV GAZIPUR-PATPARGANJ CKT	23.4.17	06:24	AT PATPARGANJ CKT. TRIPPED ON 86, GENERAL TRIP, DIFFERENTIAL TRIP.
73	23.4.17	14:29	220KV MEHRAULI - BTPS CKT. - II	23.4.17	14:56	AT MEHRAULI CKT. TRIPPED ON DIST PROT, ZONE-I. AT BTPS CKT. TRIPPED ON DIST PROT, ZONE-I, DIST 9.6KM.
74	24.4.17	16:36	220KV DSIIDC BAWANA-NARELA CKT-II	24.4.17	16:50	CKT. TRIPPED DUE TO BUS BAR PROT. OPERATED ON 220KV BUS-II.
75	24.4.17	16:36	DSIIDC BAWANA 220/66KV 100MVA TX-III	24.4.17	16:52	TR. TRIPPED DUE TO BUS BAR PROT. OPERATED ON 220KV BUS-II.
76	24.4.17	16:36	DSIIDC BAWANA 220/66KV 100MVA TX-II	24.4.17	16:52	TR. TRIPPED DUE TO BUS BAR PROT. OPERATED ON 220KV BUS-II.
77	25.4.17	12:42	PAPPANKALAN-II 220/66KV 100MVA TX-I	25.4.17	12:55	AT PAPAN KALAN-II TR. TRIPPED ON O/C, E/F.
78	25.4.17	12:42	PAPPANKALAN-II 220/66KV 100MVA TX-II	25.4.17	13:02	AT PAPAN KALAN-II TR. TRIPPED ON O/C, E/F.
79	25.4.17	12:42	PAPPANKALAN-II 220/66KV 160MVA TX-IV	25.4.17	12:55	AT PAPAN KALAN-II TR. TRIPPED ON O/C, E/F.
80	25.4.17	12:42	PAPPANKALAN-II 220/66KV 160MVA TX-III	25.4.17	13:16	AT PAPAN KALAN-II TR. TRIPPED ON O/C, E/F.
81	26.4.17	07:36	220KV NARELA - MANDOLA CKT-II	26.4.17	10:35	AT NARELA CKT. TRIPPED WITHOUT INDICATION, CVT AVAILABLE.
82	26.4.17	07:45	WAZIRPUR 220/33KV 100MVA TX-II	26.4.17	10:38	TR. TRIPPED ON 86.
83	26.4.17	13:11	WAZIRPUR 220/33KV 100MVA TX-II	26.4.17	13:13	TR. TRIPPED ON 86.
84	27.4.17	06:54	220KV MUNDKA-NAJAFGARH CKT	27.4.17	07:41	AT MUNDKA CKT. TRIPPED ON DIST PROT, ZONE-I, DIST 4.98KM. AT NAJAFGARH CKT. DID NOT TRIPPED.
85	27.4.17	10:36	SUBZI MANDI 33/11KV, 16MVA TX-I	27.4.17	16:36	TR. TRIPPED ON DIFFERENTIAL.
86	27.4.17	13:23	220KV NARELA - MANDOLA CKT-I	27.4.17	14:25	AT NARELA CKT. TRIPPED WITHOUT INDICATION.
87	28.4.17	13:50	220KV WAZIRABAD - MANDOLA CKT-IV	28.4.17	13:55	AT WAZIRABAD CKT. TRIPPED WITHOUT INDICATION, CVT AVAILABLE.
88	28.4.17	14:23	220KVBAWANA-ROHINI CKT-II	28.4.17	15:13	AT BAWANA CKT. TRIPPED ON DIST PROT, ZONE-I, DIST 5.77KM. AT ROHINI CKT. DID NOT TRIP.

S.N.	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME (HRS)		DATE	TIME (HRS)	
89	29.4.17	19:01	220KV DSIIDC BAWANA-NARELA CKT-I	30.4.17	09:22	AT BAWANA CKT. TRIPPED ON DIST PROT, ZONE-I, DIST 6.66KM.
90	29.4.17	19:01	220KV BAWANA-DSIIDC BAWANA CKT-I	30.4.17	09:22	CKT. TRIPPED ON 86.
91	29.4.17	19:01	DSIIDC BAWANA 220/66KV 160MVA TX-I	29.4.17	19:49	TR. TRIPPED ON 86.
92	29.4.17	23:52	220KV BAWANA-SHALIMARBAGH CKT-II	30.4.17	09:10	AT BAWANA CKT. TRIPPED ON DIST PROT, ZONE-I, DIST 215MTS.
93	29.4.17	23:52	BAWANA 400/220KV 315MVA ICT-III	30.4.17	09:10	ICT TRIPPED ON 195CB, 86L, B1 GROUP, SUPERVISION RELAY APPEARED.
94	30.4.17	09:09	220KV GOPALPUR-MANDOLACKT-I	30.4.17	09:43	CKT. TRIPPED DUE TO SPS OPERATION.
95	30.4.17	09:09	220KV NARELA - MANDOLA CKT-I	30.4.17	09:43	CKT. TRIPPED DUE TO SPS OPERATION.
96	30.4.17	09:09	220KV NARELA - MANDOLA CKT-II	30.4.17	09:43	CKT. TRIPPED DUE TO SPS OPERATION.
97	30.4.17	17:43	220KV GOPALPUR-MANDOLACKT-I	30.4.17	18:23	SUPPLY FAIL FROM FROM MANDOLA.

19.2 DETAILS OF 400/220KV BREAKDOWN/TRIPPINGS OCCURRED IN DTL SYSTEM DURING THE MONTH MAY 2017

S. N.	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME (HRS)		DATE	TIME (HRS)	
1	1.5.17	09:28	GEETA COLONY 220/33KV 100MVA TX-II	1.5.17	11:27	86, DIFFERENTIAL TRIP, Y PHASE PT DAMAGED.
2	1.5.17	12:48	220KV MEHRAULI - BTPS CKT. - I	1.5.17	16:32	AT MEHRAULI : DIST PROT, ZONE-I, DIST 15.12KM. AT BTPS : DIST PROT, ZONE-I, DIST 2.6KM.
3	2.5.17	09:35	OKHLA 66/11KV, 20MVA TX-I	2.5.17	09:45	86. ON 11KV GIRI NAGAR FEEDER O/C, E/F RELAY APPEARED BUD IT DID NOT TRIP.
4	2.5.17	14:20	220KV BAWANA-DSIIDC BAWANA CKT-II	2.5.17	14:57	AT BAWANA : WITHOUT INDICATION.
5	2.5.17	19:44	NARAINA 220/33KV 100MVA TX-III	2.5.17	20:08	I/C-III TRIPPED ON NON DIRECTIONAL O/C, E/F.
6	3.5.17	02:06	220KV NARELA - MANDOLA CKT-I	3.5.17	02:39	AT MANDOLA : SPS OPERATION.
7	3.5.17	02:06	220KV GOPALPUR-MANDOLA CKT-II	3.5.17	02:38	AT MANDOLA : SPS OPERATION.
8	3.5.17	02:06	220KV NARELA - MANDOLA CKT-II	3.5.17	02:39	AT MANDOLA : SPS OPERATION.
9	3.5.17	02:06	220KV GOPALPUR-MANDOLA CKT-I	3.5.17	02:38	AT MANDOLA : SPS OPERATION.
10	3.5.17	02:09	220KV DSIIDC BAWANA-NARELA CKT-II	3.5.17	02:38	AT NARELA : DIFFERENTIAL, 86 ON BOTH ENDS..

S. N.	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME (HRS)		DATE	TIME (HRS)	
11	3.5.17	02:09	220KV DSIIDC BAWANA-NARELA CKT-I	3.5.17	02:38	AT NARELA : DIFFERENTIAL, 86 ON BOTH ENDS.
12	3.5.17	06:55	GEETA COLONY 220/33KV 100MVA TX-II	3.5.17	13:02	BUCHHOLZ, 86, OIL PRESSURE TROUBLE ALARM.
13	3.5.17	15:21	220KV MUNDKA-KANJHAWALA CKT	3.5.17	16:06	AT MUNDKA : DIST PROT, ZONE-II AT KHANJAWALA : DIST PROT, ZONE-I, RYB PHASE.
14	4.5.17	13:00	220KV BAWANA-DSIIDC BAWANA CKT-I	4.5.17	17:00	AT BAWANA : DIST PROT, ZONE-I, DIST 1.73KM. AT DSIDC : DIST PROT, DIST 4.81KM.
15	5.5.17	14:14	MUNDKA 400/220KV 315MVA ICT-IV	5.5.17	14:57	INTER TRIP. 220KV I/C-IV TRIPPED ON 195 & 295 RYB, 86, GROUP A&B. FIRE REPORTED ON BUS-I ISOLATOR NO 20989A OF 220KV I/C-II.
16	5.5.17	14:14	MUNDKA 400/220KV 315MVA ICT-II	5.5.17	14:56	INTER TRIP. FIRE REPORTED ON BUS-I ISOLATOR NO 20989A OF 220KV I/C-II.
17	6.5.17	14:22	MUNDKA 400/220KV 315MVA ICT-IV	6.5.17	15:30	TRIPPED WHILE NORMALIZING ICT-II. FIRE REPORTED ON BUS-I ISOLATOR NO 20989A OF 220KV I/C-II.
18	6.5.17	14:22	220KV MUNDKA-NAJAFGARH CKT	6.5.17	14:32	AT NAJAFGARH : BACK UP PROTECTION, R PHASE, MAIN-2.
19	6.5.17	18:45	400KV BALLABGARH-BAMNAULI CKT-I	6.5.17	19:12	AT BALLABGARH CKT. TRIPPED AT BAMNAULI CKT. DID NOT TRIP.
20	7.5.17	13:34	220KV BAWANA-DSIIDC BAWANA CKT-II	7.5.17	16:38	AT DSIDC BAWANA : DIST PROT, B PHASE AT BAWANA : DIST PROT, ZONE-I, DIST 3.1KM.
21	8.5.17	17:34	OKHLA 220/33KV 100MVA TX-III	8.5.17	19:34	E/F, 86. 33KV I/C Y PHASE PT DAMAGED.
22	10.5.17	07:02	220KV DSIIDC BAWANA-NARELA CKT-II	10.5.17	07:21	AT NARELA : WITHOUT INDICATION.
23	10.5.17	17:10	OKHLA 220/33KV 100MVA TX-III	10.5.17	19:15	86, E/F, OIL LEAKAGE FROM R PHASE PT.
24	10.5.17	17:14	PATPARGANJ 220/66KV 100MVA TX-II	10.5.17	19:15	64RLV.
25	11.5.17	12:59	WAZIRABAD 66/11KV, 20MVA TX-III	11.5.17	16:48	SPR.
26	13.5.17	03:07	HARSH VIHAR 220/66KV 160MVA ICT-3	13.5.17	04:18	66KV I/C-III TRIPPED ON 86. LOCAL SUPPLY FAILED, TERTIARY FAILED LEADING TO TRIPPING OF BATTERY CHARGER I&II AND SUPPLY FROM BATTER FAILED. LOCAL SUPPLY RESTORED AT 03.00HRS. SUBSEQUENTLY ALL 66KV I/CS AND 66KV FEEDERS TRIPPED AT 03.06HRS.
27	13.5.17	03:07	HARSH VIHAR 220/66KV 160MVA ICT-1	13.5.17	04:18	66KV I/C-I TRIPPED ON 86. LOCAL SUPPLY FAILED, TERTIARY FAILED LEADING TO TRIPPING OF BATTERY CHARGER I&II AND SUPPLY FROM BATTER FAILED. LOCAL SUPPLY RESTORED AT 03.00HRS. SUBSEQUENTLY ALL 66KV I/CS AND 66KV FEEDERS TRIPPED AT 03.06HRS.

S.N.	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME (HRS)		DATE	TIME (HRS)	
28	13.5.17	03:07	HARSH VIHAR 220/66KV 160MVA ICT-2	13.5.17	04:18	66KV I/C-II TRIPPED ON 86. LOCAL SUPPLY FAILED, TERTIARY FAILED LEADING TO TRIPPING OF BATTERY CHARGER I&II AND SUPPLY FROM BATTER FAILED. LOCAL SUPPLY RESTORED AT 03.00HRS. SUBSEQUENTLY ALL 66KV I/CS AND 66KV FEEDERS TRIPPED AT 03.06HRS.
29	14.5.17	09:03	400KV BAWANA- MUNDKA CKT-II	STILL OUT		AT MUNDKA : DIST PROT, Z-I, ALL PHASE, AT BAWANA DIST PROT, RYB PHASE. TOWER BEND AND POLYMER INSULATORS DAMAGED DUE TO FIRE IN PLASTIC DUMP NEAR TOWER LINE AT MUNDKA
30	14.5.17	09:03	400KV BAWANA- MUNDKA CKT-I	STILL OUT		AT MUNDKA : CKT. PUT OFF MANUALLY.. TOWER BEND AND POLYMER INSULATORS DAMAGED DUE TO FIRE IN PLASTIC DUMP NEAR TOWER LINE AT MUNDKA
31	14.5.17	12:27	220KV WAZIRABAD - MANDOLA CKT-III	14.5.17	12:55	AT WAZIRABAD : E/F, RYB PHASE. AT MANDOLA : DID NOT TRIP.
32	14.5.17	12:40	220 KV GOPALPUR- WAZIRABAD CKT-2	14.5.17	12:55	AT MANDOLA : ABC PHASE, DIST PROT, ZONE-II, DIST 6.3KM.
33	14.5.17	13:04	220KV MEHRAULI - BTPS CKT. - II	14.5.17	14:05	AT MEHRAULI : DIST PROT, ZONE-I, DIST 13.35KM., AT BTPS : DIST PROT, ZONE-I, DIST 3.7KM.
34	15.5.17	06:40	OKHLA 66/11KV, 20MVA TX-I	15.5.17	07:34	E/F, 86.
35	15.5.17	07:28	220KVBAWANA- ROHINI CKT-I	15.5.17	09:31	AT BAWANA : DIST PROT, ZONE-I, DIST 2.0KM. AT ROHINI : DID NOT TRIP.
36	15.5.17	07:28	220KVBAWANA- ROHINI CKT-II	15.5.17	09:31	AT ROHINI : DIST PROT, ZONE-I, 186AB. AT BAWANA : DIST PROT, ZONE-I, DIST 15.83KM.
37	18.5.17	13:24	WAZIRABAD 220/66KV 100MVA TX- III	18.5.17	14:11	86. 66KV YAMUNA VIHAR CKT. -I TRIPPED ON DIST PROT, Z-I, B PHASE. EARTH STRIP OF B PHASE DAMAGED.
38	18.5.17	13:30	220KV BAWANA- SHALIMARBAGH CKT-I	18.5.17	14:05	AT SHALIMARBAGH : 86A. AT BAWANA : DID NOT TRIP.
39	18.5.17	16:00	PARKSTREET 220/33KV 100MVA TX- I	18.5.17	16:27	86.
40	19.5.17	06:41	220KV NARELA - MANDOLA CKT-II	19.5.17	09:51	AT NARELA : WITHOUT INDICATION. AT MANDOLA : DID NOT TRIP.
41	19.5.17	07:49	220KV BAMNAULI- NAJAFGARH CKT-II	19.5.17	09:53	AT BAMNAULI : DIST PROT, ZONE-I, DIST 1.122KM. AT NAJAFGARH : DIST PROT, ZONE-II, 86.
42	19.5.17	07:50	NARAINA 220/33KV 100MVA TX-II	19.5.17	17:29	BUCHHOLZ, REF, GROUP ABC. I/C-II TRIPPED ON 86.
43	19.5.17	09:49	220KV BAWANA - KANJHAWALA CKT - 1	19.5.17	10:30	AT BAWANA : TC-II FAULTY.
44	19.5.17	09:55	220KV NARELA - MANDOLA CKT-II	19.5.17	13:13	AT NARELA : WITHOUT INDICATION. AT MANDOLA : DID NOT TRIP.
45	19.5.17	14:04	BAMNAULI 400/220KV 315MVA ICT-I	19.5.17	19:24	MAIN BUCHHOLZ.
46	20.5.17	23:53	220KV BAMNAULI- PAPPANKALAN-II CKT-I	21.5.17	00:23	AT BAMNAULI : MAIN-II, 186, 86. ABC. AT PAPPANKALAN-II : DID NOT TRIP. 66KV GURU GOBIND SINGH CKT. I&II MADE OFF AT 00.15HRS. ON THE REQUEST OF BRPL CONTROL ROOM. FIRE INCIDENT REPORTED AT 66KV HASTAL GRID.

S.N.	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME (HRS)		DATE	TIME (HRS)	
47	20.5.17	23:57	220KV BAMNAULI-PAPPANKALAN-II CKT-II	21.5.17	00:20	AT BAMNAULI : MAIN-II, 186, 86, ABC. AT PAPPANKALAN-II : DID NOT TRIP. 66KV GURU GOBIND SINGH CKT. I&II MADE OFF AT 00.15HRS. ON THE REQUEST OF BRPL CONTROL ROOM. FIRE INCIDENT REPORTED AT 66KV HASTAL GRID.
48	21.5.17	06:47	SUBZI MANDI 33/11KV,16MVA TX-I	21.5.17	07:16	86.
49	21.5.17	16:09	220KV MUNDKA-KANJHAWALA CKT	21.5.17	16:26	AT MUNDKA : TRIPPED ON GROUP A&B. AT KHANJAWALA : DID NOT TRIP.
50	21.5.17	16:21	DSIIDC BAWANA 220/66KV 160MVA TX-I	21.5.17	17:24	E/F, O/C.
51	21.5.17	16:43	BAWANA 400/220KV 315MVA ICT-I	21.5.17	20:26	OLTC BUCHHOLZ, Y PHASE TRIP.
52	21.5.17	16:43	BAWANA 400/220KV 315MVA ICT-III	22.5.17	00:36	ICT TRIPPED ON 186A&B, 86-A1, 86B1, 95A-1,95B1. DIFFERENTIAL TRIP.
53	21.5.17	16:43	400KV MANDOLA-BAWANA CKT-II	21.5.17	21:03	AT BAWANA : TRIPPED ON 30C&30E, DIST PROT, ZONE-1, DIST 990MTS. AT MANDOLA: INTERTRIPPING
54	21.5.17	17:22	220KV GOPALPUR-MANDOLA CKT-I	21.5.17	20:52	AT GOPALPUR : DIST PROT, ZONE-I, DIST 5.8KM, 86.
55	21.5.17	17:26	SUBZI MANDI 33/11KV, 16MVA TX-I	21.5.17	18:01	O/C, 86.
56	21.5.17	17:29	220KV MAHARANI BAGH - SARITA VIHAR CKT	21.5.17	19:18	AT MAHARANI BAGH: GEN. TRIP R PH, DIST PROT, Z-I, DIST 1.3KM AT SARITA VIHAR : DIST PROT, Z -I, DIST 7.14KMS. AUTO RECLOSE, 186ABC.
57	21.5.17	17:33	220KVWAZIRABAD-GEETA COLONY CKT-I	21.5.17	18:31	AT GEETA COLONY : DIST PROT, Z-I, DIST 393.4MTS., E/F. AT WAZIRBAD : R&Y PHASE, DIST PROT. Z-I, DIST 5.581KM.
58	21.5.17	17:40	220KV PREET VIHAR-PATPAR GANJ CKT-I	21.5.17	18:06	AT PATPARGANJ : 86. AT PREET VIHAR : DID NOT TRIP
59	21.5.17	17:40	220KV PREET VIHAR-PATPAR GANJ CKT-II	21.5.17	19:58	AT PATPARGANJ : DIST PROT, ZONE-I, DIST 2.7KMS, R&Y PHASE, 87L, 86. AT PREET VIHAR : 86, 86L
60	21.5.17	17:44	PATPARGANJ 33/11KV, 16MVA TX	21.5.17	21:10	PRV I&II RELAY OPERATED & 86.
61	21.5.17	18:00	NARAINA 220/33KV 100MVA TX-II	21.5.17	19:00	86, GROUP B, REF, 64RHV. I/C TRIPPED WITHOUT INDICATION.
62	21.5.17	18:04	220KV HARSH VIHAR - PREET VIHAR CKT-II	21.5.17	19:18	AT HARSH VIHAR : 86, AUTO RECLOSE, CB TROUBLE, R&Y PHASE, GEN. TRIP. AT PREET VIHAR : CKT DID NOT TRIP
63	23.5.17	00:48	BAWANA 400/220 KV 315MVA ICT-I	23.5.17	02:01	BUCHHOLZ, 86A, 86B.
64	23.5.17	12:07	BAWANA 400/220 KV 315MVA ICT-I	23.5.17	16:31	BUCHHOLZ, 86 A&B.
65	24.5.17	12:53	WAZIRPUR 220/33 KV 100MVA TX-II	24.5.17	13:30	86A&B, GROUP A&B
66	24.5.17	12:53	WAZIRPUR 220/33KV 100MVA TX-I	24.5.17	13:30	86A&B, GROUP A&B, LBB. I/C TRIPPED ON 86A&B, LBB.
67	24.5.17	13:01	220KV MAHARANI BAGH-MASJID MOTH CKT-II	24.5.17	13:40	AT MAHARANI BAGH : DIST PROT, ZONE-2, ZONE-III, DIST 6.4KM. AT MASJID MOTH : DID NOT TRIP.
68	24.5.17	13:01	220KV MAHARANI BAGH-MASJID MOTH CKT-I	24.5.17	13:40	AT MAHARANI BAGH : DIST PROT, ZONE-2, ZONE-III, DIST 7.4KM. AT MASJID MOTH : DID NOT TRIP.
69	24.5.17	13:02	NARAINA 220/33KV 100MVA TX-II	24.5.17	13:19	REF TRIP AND I/C-II TRIPPED ON MASTER TRIP RELAY.

S.N.	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME (HRS)		DATE	TIME (HRS)	
70	25.5.17	15:43	BAMNAULI 400/220 KV 315MVA ICT-I	25.5.17	18:04	BUCHHOLZ, 86A1 & 86B1
71	26.5.17	12:33	220KV MUNDKA-NAJAFGARH CKT	26.5.17	13:49	AT MUNDKA : 86. AT NAJAFGARH CKT. DID NOT TRIP.
72	26.5.17	13:05	220KV BAMNAULI-NAJAFGARH CKT-II	26.5.17	13:55	AT BAMNAULI : DIST PROT ,DIST 214MTS. AT NAJAFGARH : DID NOT TRIP.
73	26.5.17	15:02	NAJAFGARH 66/11KV, 20MVA TX-II	26.5.17	15:30	HIGH WINDING TEMP.
74	27.5.17	13:25	400KV BAMNAULI-JHATIKARA CKT-II	27.5.17	21:32	AT BAMNAULI : DID NOT TRIP. AT JHATIKRA : DIST PROT, ZONE-II, DIST 10.KM.
75	28.5.17	05:30	INDRAPRASTHA POWER 220/33KV 100MVA TX-II	28.5.17	07:17	I/C-I OF TR. TRIPPED ON E/F. 33KV BAY NO 28 ISOLATOR DAMAGED.
76	28.5.17	06:10	INDRAPRASTHA POWER 220/33KV 100MVA TX-I	28.5.17	07:05	I/C-I OF TR. TRIPPED ON E/F, O/C.
77	28.5.17	13:25	BAWANA 400/220 KV 315MVA ICT-I	28.5.17	21:10	BUCHHOLZ, AND 86 A&B.
78	28.5.17	16:28	NARAINA 220/33KV 100MVA TX-III	28.5.17	17:22	R&B PHASE, O/C.
79	28.5.17	16:35	NARAINA 220/33KV 100MVA TX-I	28.5.17	16:55	I/C -I TRIPPED WITHOUT INDICATION.
80	28.5.17	16:35	NARAINA 220/33KV 100MVA TX-II	28.5.17	16:55	I/C -II TRIPPED WITHOUT INDICATION.
81	29.5.17	08:19	220KV MEHRAULI - BTPS CKT. - II	29.5.17	17:31	AT MEHRAULI : DIST PROT, ZONE-II, DIST 16.68KM. AT BTPS : DIST PROT, ZONE-I, DIST 17.47KM.
82	29.5.17	15:23	SARITA VIHAR 220/66KV 100MVA TX-III	29.5.17	15:55	DIFFERENTIAL PROTECTION.
83	30.5.17	09:22	VASANT KUNJ 220/66KV 160MVA TX-I	30.5.17	11:08	OVER FLUX.
84	31.5.17	11:25	NAJAFGARH 66/11KV, 20MVA TX-II	31.5.17	11:27	O/C.
85	31.5.17	12:30	PAPPANKALAN-II 220/66KV 100MVA TX-II	31.5.17	14:20	DIFFERENTIAL PROT, BUCHHOLZ RELAY OPERATED.

19.3 DETAILS OF 400/220KV BREAKDOWN/TRIPPINGS OCCURRED IN DTL SYSTEM DURING THE MONTH JUNE 2017

S. N.	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME (HRS)		DATE	TIME (HRS)	
01	1.6.17	17:51	400KV BALLABH GARH-BAMNAULI CKT-II	1.6.17	18:18	AT BAMNAULI : DIST PROT, ZONE-I, DIST 16.90KM. AT BALLABHGARH :DIST PROT, ZONE-I, DIST 38.6KM.
02	2.6.17	13:30	NAJAFGARH 220/66KV 100MVA TX-I	2.6.17	14:12	TR. TRIPPED ON 86, I/C TRIPPED ON INTERTRIPPING.
03	4.6.17	09:40	OKHLA 220/33KV 100MVA TX-V	4.6.17	19:21	TR. TRIPPED ON 186, 64 RHV. I/C TRIPPED ON 86.
04	5.6.17	11:40	TRAUMA CENTER 220/33KV 100MVA TX-I	5.6.17	11:45	I/C TRIPPED ON 186. 33KV BUS COUPLER TRIPPED ON 186.

S.N.	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME (HRS)		DATE	TIME (HRS)	
05	5.6.17	15:12	220KV PRAGATI - PARK STREET CKT-II	5.6.17	15:21	AT PRAGATI : 50A, 50B, 50C. AT PARK STREET CKT DID NOT TRIP. CT OF 66KV SHASTRI PARK CKT.-II FLASH AT BYPL END.
06	5.6.17	17:54	SUBZI MANDI 220/33KV 100MVA TX-II	5.6.17	19:10	TR. TRIPPED ON HIGH WINDING TEMP.
07	6.6.17	08:15	220KV DIAL-MEHRAULI CKT-I	6.6.17	08:30	AT MEHRAULI : 186A&B. AT DIAL : CKT. DID NOT TRIP.
08	6.6.17	10:30	220KV DIAL-MEHRAULI CKT-I	6.6.17	10:57	AT DIAL : DIFFERENTIAL TRIP. AT MEHRAULI : CKT. DID NOT TRIP.
09	6.6.17	17:52	VASANT KUNJ 220/66KV 160MVA TX-I	6.6.17	18:08	I/C-1 TRIPPED ON 51A, O/C, 86. 66KV C-1 CKT. AND C-2 CKT. TRIPPED ON O/C, 186. CT BLAST AT JNU GRID OF BRPL.
10	7.6.17	07:58	OKHLA 220/33KV 100MVA TX-III	7.6.17	08:00	TR. TRIPPED ON O/C. BIRDAGE OCCURRED ON 33KV NEHRU PLACE CKT.-I AND CKT. DID NOT TRIP.
11	7.6.17	09:50	NAJAFGARH 220/66KV 100MVA TX-I	7.6.17	10:19	TR. TRIPPED ON DIFFERENTIAL. STRAY WIRE FOUND ON 66KV I/C'S ISOLATOR.
12	7.6.17	11:13	220KV BAWANA-DSIIDC BAWANA CKT-I	7.6.17	12:52	AT DSIDC : DIST PROT, DIST, ZONE-I, DIST 3.9KM AT BAWANA : DIST PROT, ZONE-I, DIST 1.5KM., RYB PHASE, STRING FOUND ON CONDUCTOR.
13	9.6.17	10:03	220KV GAZIPUR - BTPS CKT	9.6.17	12:55	AT BTPS : DIST PROT, DIST 6.7KM. AT GAZIPUR : CB OF CKT. REMAINED OFF.
14	10.6.17	19:30	INDRAPRASTHA POWER 220/33KV 100MVA TX-III	11.6.17	19:25	TR. TRIPPED ON 51, 86. I/C TRIPPED ON O/C, E/F, B PHASE PRV TRIP.
15	12.6.17	06:21	220KV BAWANA - KANJHAWALA CKT - I	12.6.17	18:09	AT KHANJAWALA : DIST PROT, ZONE-I, ZONE-II, DIFFERENTIAL FAIL, DIST 10.01KM. AT BAWANA : DIST PROT, Z-1, DIST 7.884KM.
16	13.6.17	07:05	GEETA COLONY 220/33KV 100MVA TX-II	13.6.17	09:12	TR. TRIPPED ON OVER FLUX. I/C TRIPPED ON 30.
17	13.6.17	13:31	220KV MAHARANI BAGH - LODHI ROAD CKT-II	13.6.17	16:15	AT MAHARANI BAGH : DIFFERENTIAL.
18	13.6.17	15:38	VASANT KUNJ 66KV 20MVAR CAP. BANK-I	14.6.17	19:30	B PHASE, O/C, 86.
19	14.6.17	03:18	BAWANA 400/220KV 315MVA ICT-I	14.6.17	15:37	BUCHHOLZ RELAY.
20	14.6.17	11:39	220 KV PATPARGANJ - I.P. CKT-I	14.6.17	11:41	AT PATPARGANJ : 86.
21	15.6.17	18:30	MEHRAULI 220/66KV 100MVA TX-I	15.6.17	18:40	66KV I/C TRIPPED O/C, Y& B PHASE. DIST PROT, ZONE-I, II, O/C, E/F RELAY APPEARED ON 66KV C-1 CKT, BUT CKT. DID NOT TRIP.
22	15.6.17	18:30	MEHRAULI 220/66KV 100MVA TX-III	15.6.17	18:40	I/C TRIPPED ON E/F. DIST PROT, ZONE-I, II, O/C, E/F REALY APPEARED ON 66KV C-1 CKT, BUT CKT. DID NOT TRIP.
23	15.6.17	19:37	220KV GEETA COLONY- PATPARGANJ CKT-I	15.6.17	21:24	AT GEETA COLONY : DIST PROT, Z-1, DIST 0.584KM. AT PATPARGANJ : DIST PROT, ZONE-I, DIST 3.860KM.
24	15.6.17	02:05	220KV MAHARANI BAGH- MASJID MOTH CKT-II	COND.		AT MAHARANI BAGH : DIST PROT, ZONE-I, DIST 7.7KM AT MASJID MOTH : DIST PROT, ZONE-I, 86, B PHASE CABLE FAULTY.
25	16.6.17	02:35	220KV BAMNAULI-NARAINA CKT-II	16.6.17	08:34	AT NARAINA : DIST PROT, ZONE-I, 186A&B. AT BAMNAULI : DIST PROT, ZONE-II, DIST 20.9KM.

S.N.	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME (HRS)		DATE	TIME (HRS)	
26	16.6.17	07:53	BAMNAULI 400/220KV 315MVA ICT-I	15.6.17	11:20	220KV I/C TRIPPED WITHOUT INDICATION.
27	16.6.17	10:36	220KV MUNDKA- NAJAFGARH CKT	16.6.17	11:03	AT NAJAFGARH : DIST PROT, ZONE-I, DIST 3.361. AT MUNDKA : DIST PROT, DIST 11.4KM.
28	16.6.17	12:32	220KV MEHRAULI - BTPS CKT. – II	16.6.17	16:02	AT MEHRAULI : 86 AT BTPS TRIPPED ON DIST PROT, DIST 5.9KM.
29	18.6.17	16:40	BAWANA 400/220KV 315MVA ICT-I	18.6.17	22:00	TRIPPED ON BUCHHOLZ. 220KV I/C TRIPPED ON LOW GAS PRESSURE.
30	18.6.17	17:52	400KV BAMNAULI- JHATIKARA CKT-II	18.6.17	22:55	AT JHATIKARA : LINE TO LINE R-B PHASE FAULT DIST 10KM. AT BAMNAULI CKT. DID NOT TRIP.
31	18.6.17	19:30	NAJAFGARH 66/11KV, 20MVA TX-II	18.6.17	20:15	TRIPPED ON 86.
32	19.6.17	08:10	PARKSTREET 66/33KV, 30MVA TX-II	19.6.17	20:50	TRIPPED ON 86, DIFFERENTIAL.
33	19.6.17	11:33	220KV MEHRAULI - BTPS CKT. – II	19.6.17	16:41	AT MEHRAULI : DIST PROT, ZONE-I, DIST 13.98KM AT BTPS TRIPPED ON DIST PROT, ZONE-I, DIST 3KM.
34	19.6.17	23:10	PARKSTREET 33KV HANUMAN ROAD	20.6.17	03:50	B PHASE BUS-I JUMPER FOUND HANDING NEAR STRUCTURE AND TREE BRANCH LYING ON BUS-I ISOLATOR.
35	19.6.17	23:10	PARKSTREET 220/ 33KV 100MVA TX-I	20.6.17	01:35	BUCHHOLZ, 86B. I/C TRIPPED ON 51A, IDMT, 86A&B, A&C PHASE. B PHASE BUS-I JUMPER FOUND HANDING NEAR STRUCTURE AND TREE BRANCH LYING ON BUS-I ISOLATOR.
36	20.6.17	01:40	PARKSTREET 220/ 33KV 100MVA TX-II	20.6.17	03:15	86DC, 86B, DC SUPERVISION RELAY. TREE BRANCH FALL ON 33KV I/C-II.
37	20.6.17	08:28	SHALIMAR BAGH 220 /66KV 100MVA TX-I	20.6.17	12:58	64 RLV, REF. I/C TRIPPED ON 86.
38	20.6.17	09:15	NAJAFGARH 220/66KV 100MVA TX-I	20.6.17	09:52	86.
39	21.6.17	07:48	NARAINA 33/11KV, 16MVA TX-II	21.6.17	10:25	O/C. I/C TRIPPED ON O/C, R&B PHASE. BLAST SOUND AND SMOKE OBSERVED NEAR I/C AND 11KV BUS.
40	21.6.17	09:50	NARAINA 220/33KV 100MVA TX-I	21.6.17	10:15	I/C TRIPPED ON O/C, R&B PHASE.
41	21.6.17	09:50	220KV NARAINA- RIDGE VALLEY CKT-I	21.6.17	13:26	AT RIDGE VALLEY : 86 A&B, GEN TRIP. AT NARAINA : SUPPLY FAILED.
42	21.6.17	09:54	NARAINA 220/33KV 100MVA TX-II	21.6.17	10:15	I/C TRIPPED ON E/F.
43	21.6.17	15:15	220KV GAZIPUR - BTPS CKT	21.6.17	16:54	AT BTPS : DIST PROT, ZONE-I, DIST 13.5KM.
44	21.6.17	18:28	220KV BAMNAULI- NARAINA CKT-II	21.6.17	18:43	AT NARAINA : DIST PROT, DIFFERENTIAL. AT BAMNAULI : DIST PROT, ZONE-I, DIST 9.442KM, 186A&B.
45	22.6.17	11:07	220KV GOPALPUR- MANDOLA CKT-I	22.6.17	12:11	AT GOPALPUR : CKT. DID NOT TRIP ONLY SUPPLY FAILED FROM MANDOLA.
46	23.6.17	05:17	SHALIMAR BAGH 220/33KV 100MVA TX- III	3.7.17	17:46	DIFFERENTIAL, 64RLV, BUCHHOLZ TRIP, PRV TRIP, MASTER TRIP, I/C-III TRIPPED ON 86.
47	23.6.17	06:55	PATPARGANJ 33/11KV, 16MVA TX	23.6.17	14:18	DIFFERENTIAL, I/C DID NOT TRIP, R PHASE CT OF TR. DAMAGED.
48	23.6.17	06:55	220 KV PATPARGANJ - I.P. CKT-I	23.6.17	14:18	AT PATPARGANJ : 86, R PHASE CT OF 16MVA TR. DAMAGED.

S.N.	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME (HRS)		DATE	TIME (HRS)	
49	25.6.17	04:20	ROHINI 66/11KV, 20MVA TX-II	25.6.17	04:32	E/F.
50	25.6.17	13:40	400KV DADRI-HARSH VIHAR CKT-I	26.6.17	18:46	AT HARSH VIHAR : DIST PROT, ZONE-I, DIST 25.9KM, E/F.
51	25.6.17	17:06	220KV NARELA - MANDOLA CKT-II	25.6.17	19:06	AT NARELA : DIST PROT, ZONE-I, DIST 5.43KM, O/C. AT MEHRAULI : NO FAULT FOUND.
52	29.6.17	00:05	SHALIMAR BAGH 220/66KV 100MVA TX-I	29.6.17	10:35	DIFFERENTIAL PROT, REF, A&B PHASE LV, 86, 66KV R PHASE LA DAMAGED.
53	29.6.17	12:07	VASANT KUNJ 66/11KV, 20MVA TX-I	29.6.17	14:10	DIFFERENTIAL RELAY, 87, 64LB, E/F.
54	30.6.17	20:50	GAZIPUR 66KV KONDLI CKT-II	30.6.17	22:40	DIST PROT, Z-II, R-Y PHASE Z-I, INDICATION ALREADY PRESENT SINCE FEW DAYS BUT CKT. DID NOT TRIP ON THAT DAY.

19.4 DETAILS OF 400/220KV BREAKDOWN/TRIPPINGS OCCURRED IN DTL SYSTEM DURING THE MONTH JULY 2017

S. N.	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME (HRS)		DATE	TIME (HRS)	
1	1.7.17	13:02	220KV GAZIPUR - BTPS CKT	1.7.17	16:32	AT BTPS : E/F, DIST PROT, ZONE-I, DIST 2.72KM. AT GAZIPUR : CB OFF.
2	1.7.17	16:08	220KV MEHRAULI - BTPS CKT. - II	1.7.17	20:02	AT MEHRAULI : DIST PROT, ZONE-I, DIST 4.114KM. AT BTPS CKT. TRIPPED ON DIST PROT, ZONE-I, E/F.
3	2.7.17	14:01	PRAGATI 220/66KV 160MVA TX-I	2.7.17	14:15	INTERTRIPPING FOLLOWING THE 66KV BUS BAR PROT. OPERATION AT G.T.STN. DUE TO SNAPPING R PHASE JUMPER OF 66KV SCHOOL LANE CKT.-I.
4	2.7.17	14:01	PRAGATI 220/66KV 160MVA TX-II	2.7.17	14:17	--DO--
5	2.7.17	14:53	NARELA 66/33KV, 30MVA TX	2.7.17	15:17	TR. TRIPPED ON PRV TROUBLE.
6	2.7.17	17:46	220KV BAWANA-SHALIMARBAGH CKT-I	2.7.17	18:32	AT BAWANA :WITHOUT INDICATION AT SHALIMARBAGH CKT. DID NOT TRIP.
7	3.7.17	20:10	GOPALPUR 33/11KV, 16MVA TX-I	3.7.17	21:10	TRIPPED WITHOUT INDICATION.
8	4.7.17	10:30	NARELA 66/33KV, 30MVA TX	4.7.17	12:07	BUCHHOLZ RELAY, PRV RELAY.
9	4.7.17	15:19	SUBZI MANDI 220/33KV 100MVA TX-II	4.7.17	15:29	86
10	4.7.17	15:09	220KV GOPALPUR-MANDOLACKT-I	4.7.17	15:38	AT GOPALPUR : DIST PROT, ZONE-I, 9.5KM. AT MANDOLA : DIST PROT, ZONE-I, B PHASE.
11	5.7.17	07:57	BAMNAULI 400/220KV 315MVA ICT-I	5.7.17	17:23	DIFFERENTIAL TRIP, RYB PHASE, 186A&B. 220KV I/C TRIPPED ON O/C, 167A, A PHASE. R PHASE LA BLAST LA SIDE.
12	5.7.17	07:57	220KV BAMNAULI - PAPANKALAN-II CKT.-I.	5.7.17	08:10	AT PAPANKALAN-II, DIST PROT, Z-I, A-N PHASE, DIST. 3.9KM. AT BAMNAULI : CKT. DID NOT TRIP.
13	5.7.17	14:38	PATPARGANJ 220/33KV 100MVA TX-IV	5.7.17	16:15	80B, 86B, OVER FLUX. I/C TRIPPED ON 86.

S.N.	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME (HRS)		DATE	TIME (HRS)	
14	5.7.17	16:50	MASJID MOTH 220/33KV 100MVA TX-II	5.7.17	17:30	E/F, 86. 220KV BUS COUPLER TRIPPED ON NON DIRECTIONAL E/F, 86.
15	5.7.17	16:50	220KV MAHARANIBAGH- MASJID MOTH CKT-I	5.7.17	17:30	AT MAHARANI BAGH : GEN TRIP, R&B PHASE. AT MASJID MOTH : CKT. DID NOT TRIP.
16	6.7.17	21:24	NARAINA 220/33KV 100MVA TX-III	7.7.17	12:40	WITHOUT INDICATION. TRIP COMMAND INITIATED DUE TO DC LEAKAGE AND SHORTING OF CONTROL CABLE.
17	7.7.17	12:50	NARAINA 220/33KV 100MVA TX-III	7.7.17	13:40	I/C-II TRIPPED ON O/C, E/F, TR. TRIPPED ON O/C, E/F., BUS COUPLER TRIPPED ON E/F.
18	7.7.17	12:50	NARAINA 220/33KV 100MVA TX-I	7.7.17	13:40	I/C-I TRIPPED ON E/F, TR. TRIPPED WITHOUT INDICATION.
19	7.7.17	12:50	NARAINA 220/33KV 100MVA TX-II	7.7.17	13:40	I/C-II GOT DAMAGED, TR. TRIPPED WITHOUT INDICATION, BUS COUPLER TRIPPED ON E/F.
20	7.7.17	12:50	NARAINA 33KV MAYAPURI CKT-II	7.7.17	15:00	TRIPPED WITH WHILE I/C I, II & III AND TR. I, II & III ALONGWITH 33KV BUS COUPLER.
21	7.7.17	18:43	220KV PRAGATI - SARITA VIHAR CKT - I	7.7.17	19:20	AT PRAGATI : DIST PROT, ZONE -I, DIST 7.360, ACTIVE GROUP -I, START PHASE CN, TRIP PHASE C. AT SARITA VIHAR : DIST PROT, ZONE-I, DIST 6.554, PHASE C.
22	8.7.17	10:22	GAZIPUR 220/66KV 100MVA TX-II	9.7.17	12:39	66KV I/C TRIPPED ON 86, 51T, 51N ALONGWITH 66KV KONDLI CKT.-II TRIPPED ON DIST PROT, ZONE-I, DIST 0.9KM, O/C.
23	8.7.17	10:22	GAZIPUR 220/66KV 160MVA TX-I	9.7.17	12:39	66KV I/C TRIPPED ON TRIP RELAY UNHEALTHY, GEN TRIP, O/C, VT FUSE FAIL ALONGWITH BUS COUPLER TRIP ON E/F AND PPG INDUSTRIAL AREA TRIP ON DIST PROT, O/C, E/F, 186, ZONE-I, II, IV DIST 0.7KM.
24	8.7.17	10:40	PATPARGANJ 220/66KV 100MVA TX-I	8.7.17	10:45	I/C TRIPPED ON O/C.
25	8.7.17	10:25	220KV BAMNAULI - DIAL CKT-I	8.7.17	18:34	AT BAMNAULI : DIFFERENTIAL TRIP, B PHASE 186 A&B. AT DIAL : DIST PROT, ZONE-I, LIFE DIFFERENTIAL PROTECTION TRIP, UNDER VOLTAGE, B&R PHASE TRIP.
26	9.7.17	11:25	220KV DSIIDC BAWANA-NARELA CKT-I	9.7.17	14:29	AT DSIDC BAWANA : R PHASE, 86. AT NARELA : DIFFERENTIAL INTER TRIP.
27	9.7.17	12:52	220KV NARELA - MANDOLA CKT-I	9.7.17	14:42	AT NARELA : DIST PROT, ZONE-I, DIST 4.8KM, 186, R PHASE. AT MANDOLA : DIST PROT, ZONE-I, DIST 15.11KM, R PHASE.
28	9.7.17	14:02	220KV GAZIPUR - BTPS CKT	9.7.17	16:46	AT BTPS : DIST PROT, ZONE-I, DIST 19.00KM, R PHASE, E/F. AT AT GAZIPUR : CKT. DID NOT TRIP.
29	10.7.17	07:03	KANJHAWALA 220/66KV 100MVA TX-I	10.7.17	07:15	I/C TRIPPED ON 51N, 86 ALONGWITH 66KV POOTHKHURD CKT. WHICH TRIPPED ON DIFFERENTIAL, O/C, E/F, DIST PROT, ZONE-I, B PHASE.
30	10.7.17	18:35	220KV MEHRAULI - BTPS CKT. - II	10.7.17	19:36	AT MEHRAULI : DIST PROT, DIST 5.33KM, CN PHASE TRIP PHASE ABC. AT BTPS : DIST PROT, ZONE-I, DIST 0.136KM, ALONGWITH 66KV MALVIYA NAGAR CKT. I&II, 66KV C DOT CKT. I & II TRIPPED.
31	11.7.17	11:15	MEHRAULI 66/11KV, 20MVA TX-I	11.7.17	13:05	TRIPPED ON 86. I/C TRIPPED WITHOUT INDICATION.
32	11.7.17	12:45	220KV MEHRAULI - BTPS CKT. - I	11.7.17	16:19	AT MEHRAULI : DIST PROT, ZONE-I, DIST 7.848KM, TRIP PHASE C. AT BTPS : DIST PROT, ZONE-II, DIST 17KM, B PHASE.

S.N.	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME (HRS)		DATE	TIME (HRS)	
33	11.7.17	15:40	220KV BAWANA-SHALIMARBAGH CKT-I	11.7.17	22:05	AT SHALIMARBAGH : DIST PROT, DIFFERENTIAL. AT BAWANA : DIST PROT, ZONE-I, DIST 6.951KM, 86. B PHASE LA DAMAGED.
34	11.7.17	18:45	SARITA VIHAR 220/66KV 100MVA TX-III	11.7.17	23:45	E/F.
35	12.7.17	16:06	OKHLA 220/33KV 100MVA TX-IV	12.7.17	16:15	TRIPPED ON 96E ALONGWITH 33KV OKHLA PHASE -II CKT. -II WHICH TRIPPED WITHOUT INDICATION.
36	12.7.17	16:06	OKHLA 220/33KV 100MVA TX-V	12.7.17	16:15	TRIPPED ON 96E ALONGWITH 33KV OKHLA PHASE -II CKT. -II WHICH TRIPPED WITHOUT INDICATION.
37	12.7.17	16:06	OKHLA 220/33KV 100MVA TX-III	12.7.17	16:15	TRIPPED ON 96E ALONGWITH 33KV OKHLA PHASE -II CKT. -II WHICH TRIPPED WITHOUT INDICATION.
38	12.7.17	06:44	220KV BAMNAULI-PAPPANKALAN-II CKT-I	12.7.17	07:09	AT PAPANALAN-II : DIST PROT, ZONE-I, DIST 1.6KM, DIFFERENTIAL TRIP, 86 ALONGWITH 220KV BUS COUPLER TRIP ON 86, O/C, E/F. AT BAMNAULI : DIST PROT, ZONE-I, DIST 7.31KM.
39	12.7.17	16:05	220KV MEHRAULI - BTPS CKT. - II	12.7.17	21:07	AT MEHRAULI : DIST PROT, ZONE-I, DIST 2.95KM, E/F, R PHASE. AT BTPS : DIST PROT, DIST 13.99KM, R PHASE. SPS OPERATED ON 66KV MALVIYA NAGAR CKT. I&II & 66KV CDOT CKT. I&II
40	12.7.17	16:06	220KV OKHLA - BTPS CKT. - II	12.7.17	16:15	AT OKHLA : TRIPPED WITHOUT INDICATION. AT BTPS : CKT DID NOT TRIP 33KV OKHLA PHASE -II CKT. -II TRIPPED WITHOUT INDICATION.
41	13.7.17	10:45	PATPARGANJ 220/33KV 100MVA TX-III	13.7.17	11:20	I/C TRIPPED ON 67A, 67N. ALONGWITH 33KV CBD SHAHDRA CKT. WHICH TRIPPED ON E/F, 86.
42	13.7.17	10:45	PATPARGANJ 220/33KV 100MVA TX-IV	13.7.17	11:25	86B, 51N, ALONGWITH I/C TRIPPED ON 51N, 51A, 86. 33KV CBD SHAHDRA CKT. ALSO TRIPPED ON E/F, 86.
43	14.7.17	20:15	220KV GEETA COLONY-PATPARGANJ CKT-I	14.7.17	22:11	AT PATPARGANJ : DIST PROT, ZONE-I, DIST 3.42KM, 186. AT GEETA COLONY : DIST PROT, DIST 1.064KM, TRIP PHASE ABC.
44	15.7.17	13:17	WAZIRABAD 66/11KV, 20MVA TX-III	15.7.17	14:29	86, DIFFERENTIAL RELAY, REF, I/C INTER TRIPPED.
45	16.7.17	06:42	SHALIMAR BAGH 220/66KV 100MVA TX-I	16.7.17	07:15	64LV, REF LV ALONGWITH I/C TRIPPED ON 86.
46	16.7.17	06:57	GAZIPUR 220/66KV 100MVA TX-II	16.7.17	09:05	GEN TRIP, PRV ALONGWITH I/C TRIPPED ON 86.
47	16.7.17	09:45	GAZIPUR 220/66KV 100MVA TX-II	16.7.17	14:13	DIFFERENTIAL, GENERAL TRIP, PRV TRIP.
48	16.7.17	12:31	MASJID MOTH 220/33KV 100MVA TR-III	16.7.17	12:36	TRIPPED WITHOUT INDICATION WHILE PROTECTION TEAM WAS WORKING ON TR. - I.
49	16.7.17	12:37	400KV DADRI-HARSH VIHAR CKT-I	16.7.17	13:30	AT HARSH VIHAR : DIST PROT, ZONE-II, B PHASE TRIP. AT DADRI : DIST PROT, ZONE-I, DIST 9.0KM, B PHASE.
50	16.7.17	18:11	220KV MAHARANI BAGH - LODHI ROAD CKT-II	16.7.17	20:56	AT MAHARANI BAGH : DIST PROT, ZONE-III, ABC PHASE. CKT. WAS ON NO LOAD.
51	16.7.17	18:11	220KV MAHARANI BAGH - PRAGATI CKT	16.7.17	18:32	AT PRAGATI : DIST PROT ,ZONE-I, DIST 1.946KM. AT MAHARANI BAGH : CKT. DID NOT TRIP.

S.N.	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME (HRS)		DATE	TIME (HRS)	
52	16.7.17	20:29	PAPPANKALAN-I 220/66KV 100MVA TX-II	16.7.17	20:51	I/C TRIPPED ON O/C, TR. TRIPPED ON O/C.
53	16.7.17	20:29	PAPPANKALAN-I 220/66KV 100MVA TX-IV	16.7.17	20:51	TR. TRIPPED ON O/C.
54	16.7.17	20:29	PAPPANKALAN-I 220/66KV 160MVA TX-I	16.7.17	20:51	TR. TRIPPED ON O/C.
55	16.7.17	20:53	PAPPANKALAN-I 220/66KV 100MVA TX-II	16.7.17	21:02	TR. TRIPPED ON O/C.
56	16.7.17	20:53	PAPPANKALAN-I 220/66KV 100MVA TX-IV	16.7.17	21:02	TR. TRIPPED ON O/C.
57	16.7.17	20:53	PAPPANKALAN-I 220/66KV 160MVA TX-I	16.7.17	21:02	TR. TRIPPED ON O/C.
58	17.7.17	22:33	220KV GAZIPUR - BTPS CKT	18.7.17	08:44	AT BTPS : DIST PROT, ZONE-I, DIST 14.5KM, R PH, E/F. AT GAZIPUR : CKT. DID NOT TRIP.
59	18.7.17	11:10	WAZIRABAD 220/66 KV 160MVA TX-I	18.7.17	11:19	DC LEAKAGE JERK.
60	18.7.17	12:48	PAPPANKALAN-I 220/66KV 100MVA TX-IV	18.7.17	12:57	RELAY MALFUNCTIONING WHILE CONDUCTING TESTS ON O/C RELAY BY PROTECTION DEPTT.
61	18.7.17	12:48	PAPPANKALAN-I 220/66KV 160MVA TX-3	18.7.17	12:57	RELAY MALFUNCTIONING WHILE CONDUCTING TESTS ON O/C RELAY BY PROTECTION DEPTT.
62	18.7.17	12:24	220KV MEHRAULI - BTPS CKT. - II	18.7.17	16:25	AT MEHRAULI : DIST PROT, ZONE-I, DIST 12.74KM, TRIP PHASE AB. AT BTPS DIST PROT, ZONE-I, DIST 4.1KM.
63	19.7.17	14:22	NARAINA 33/11KV, 16MVA TX-II	19.7.17	16:17	TRIPPED ON R&B PHASE, O/C AND I/C TRIPPED ON R&B PHASE O/C. 11KV FEEDERS AFFECTED MAGGO-II, KRIBI PLACE CKT. -II, OLD NAGAL, A BLOC SHOPPING CENTER, NARAINA VILLAGE & GOPI NATH BAZAR.
64	19.7.17	18:04	220KV GEETA COLONY- PATPARGANJ CKT -II	19.7.17	20:04	AT GEETA COLONY : DIST PROT, ZONE-II, DIST 5.40KM, TRIP PHASE C. AT PATPARGANJ : DIST PROT, ZONE-I, DIST 2.939, E/F, O/C.
65	20.07.17	06.38	MASJID MOTH 220/33KV 100MVA TX-I	20.07.17	13:10	33KV I/C-I TRIPPED ON TROUBLE ALARM.
66	21.7.17	07:53	RIDGE VALLEY 220/66KV 160MVA TX-I	21.7.17	09:05	86A, 86B, CB TROUBLE, WTI LB ALARM. ON 66KV SIDE GEN TRIP, O/C, R PHASE, O/C TRIP.
67	21.7.17	13:40	220KV GAZIPUR - BTPS CKT	21.7.17	16:14	AT BTPS :DIST PROT, ZONE-I, DIST 6.1KM, E/F.
68	21.7.17	19:42	220KV GOPALPUR- MANDOLACKT-I	21.7.17	20:02	AT GOPALPUR : DIST PROT, MAIN-II, RYB PHASE. AT MANDOLA DIST PROT, ZONE-I, DIST 17.86KM.
69	21.7.17	21:29	220KVBAWANA- ROHINI-2 CKT-I	21.7.17	22:02	AT ROHINI-II :GROUP A&B INDICATIONS, CVT AVAILABLE.
70	22.7.17	11:00	OKHLA 33KV NEHRU PLACE CKT-II	22.7.17	20:35	Y PHASE CB CLAMP MELT DUE TO HEAVY SPARKING.
71	22.7.17	11:25	WAZIRABAD 220/ 66KV 100MVA TX-II	22.7.17	13:45	CHECK TRIP CKT. FAULTY.
72	22.7.17	12:17	GOPALPUR 220/33KV 100MVA TX-III	22.7.17	20:32	I/C TRIPPED ON 51X. ON 33KV WAZIRABAD CKT. -I E/F, 86, O/C RELAY APPEARED BUT CB DID NOT TRIPPED.

S.N.	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME (HRS)		DATE	TIME (HRS)	
73	22.7.17	15:25	220KV MEHRAULI - BTPS CKT. - II	22.7.17	16:02	AT MEHRAULI : DIST PROT, DIST 14.31KM, TRIP PHASE ABC. AT BTPS : DIST PROT, ZONE-I, DIST 13.9KM.
74	24.7.17	11:45	GAZIPUR 66KV VIVEK VIHAR CKT-I (PPG INDUSTRIAL AREA)	24.7.17	14:46	AT GAZIPUR : CKT. TRIPPED ON DIST PROT, ZONE-I, DIST 0.9KM, PERMIT WAS GIVEN TO J.E.(DTL) ALONGWITH BYPL.
75	25.7.17	06:46	SHALIMAR BAGH 33/11KV, 16MVA TX-I	25.7.17	06:57	DIFFERENTIAL AND 86, I/C TRIPPED WITHOUT INDICATION.
76	26.7.17	13:18	PREETVIHAR 220/33KV 100MVA TX-I	26.7.17	14:58	I/C TRIPPED WHILE WHILE CHECKING GAS LEAKAGE IN CHAMBER.
77	26.7.17	13:18	220KV PREET VIHAR-PATPARGANJ CKT. -I	26.7.17	13:58	AT PREET VIHAR : TRIPPED WHILE CHECKING GAS LEAKAGE IN CHAMBER. AT PATPARGANJ : CKT DID NOT TRIPPED.
78	26.7.17	13:18	220KV HARSH VIHAR - PREET VIHAR CKT-I	26.7.17	13:56	AT PREET VIHAR : TRIPPED WHILE CHECKING GAS LEAKAGE IN CHAMBER. AT HARSH VIHAR : TRIPPED ON MAIN-I, 81, RYB
79	26.7.17	14:30	220KVBAWANA-ROHINI CKT-I	26.7.17	16:55	AT BAWANA : DIST PROT, ZONE-I, DIST 7.8KM, AT ROHINI : BAWANA CKT. -I TRIPPED ON 86ABC, ON BAWANA -I, AT ROHINI : SHALIMARBAGH CKT. -I TRIPPED ON DIST PROT, ZONE-I, 186A&B. AT SHALIMARBAGH : INTERTRIP RELAY RELAY APPEARED AT SHALIMARBAGH.
80	26.7.17	15:03	220KV BAMNAULI-NAJAFGARH CKT-II	26.7.17	15:29	AT BAMNAULI : DIST PROT, DIST 6.195KM. 86, ABC.
81	26.7.17	23:57	NARAINA 220/33KV 100MVA TX-II	27.7.17	04:05	I/C TRIPPED ON O/C, R PHASE.
82	26.7.17	23:57	NARAINA 220/33KV 100MVA TX-I	STILL OUT		TRIPPED ON 195ABC, 295ABC, DC SUPERVISION AND TRIP SUPERVISION.TR. BURNT DUE TO FIRE,
83	27.7.17	13:16	220KV BAMNAULI - DIAL CKT-II	27.7.17	15:16	AT BAMNAULI : DIST PROT, ZONE-I, DIST 1.96KM, DIFFERENTIAL TRIP. AT DIAL : DIST PROT, DIST 4.8KM, B PHASE FAULTY, B PHASE TRIP.
84	27.7.17	14:48	220KV GAZIPUR - BTPS CKT	27.7.17	16:55	AT BTPS : DIST PROT, ZONE-I, DIST 13.3KM.
85	27.7.17	16:58	220KV MAHARANI BAGH - LODHI ROAD CKT-II	27.7.17	18:57	AT MAHARANI BAGH : DIST PROT, ZONE-I, ZONE-II.
86	29.7.17	06:20	VASANT KUNJ 220/66KV 100MVA TX-II	29.7.17	07:55	I/C TRIPPED ON 51N, E/F, 86.
87	29.7.17	06:20	VASANT KUNJ 66/11KV, 20MVA TX-I	29.7.17	09:10	86, 64R&Y PHASE. I/C TRIPPED ON INTERTRIP.
88	29.7.17	06:20	VASANT KUNJ 220/66KV 100MVA TX-III	29.7.17	08:15	TR. TRIPPED ON 51A, O/C, 86. I/C TRIPPED ON 51A, O/C, E.F 51N.

19.5 DETAILS OF 400/220KV BREAKDOWN/TRIPPINGS OCCURRED IN DTL SYSTEM DURING THE MONTH AUGUST 2017

S. N.	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME (HRS)		DATE	TIME (HRS)	
1	1.8.17	16:29	OKHLA 220/66KV 100MVA TX-II	1.8.17	16:38	I/C TRIPPED WITHOUT INDICATION.
2	1.8.17	16:29	OKHLA 220/66KV 100MVA TX-I	1.8.17	16:40	I/C TRIPPED ON 51AX.
3	2.8.17	06:50	MASJID MOTH 220/33KV 100MVA TR-III	2.8.17	07:45	86, DIFFERENTIAL PROTECTION. I/C TRIPPED ON 86.

S. N.	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME (HRS)		DATE	TIME (HRS)	
4	2.8.17	14:00	NARAINA 220/33KV 100MVA TX-III	2.8.17	14:13	O/C, 86. I/C TRIPPED ON TRIP SUPERVISION.
5	2.8.17	14:20	VASANT KUNJ 220/66KV 100MVA TX-II	2.8.17	18:35	HOT POINT ON HV SIDE R PHASE BUSHING.
6	2.8.17	15:35	220KV GEETA COLONY- PATPARGANJ CKT -II	2.8.17	18:00	AT PATPARGANJ : DIST PROT, ZONE-I, Y-B PHASE, DIST 2.7KM., 186. ATTENDING HOT POINT. AT GEETA COLONY : DIST PROT, ZONE-I, DIST 1.757KM.
7	4.8.17	05:58	OKHLA 220/66KV 100MVA TX-I	4.8.17	06:25	I/C TRIPPED ON E/F.
8	4.8.17	13:46	220KV MUNDKA-KANJHAWALA CKT	4.8.17	16:47	AT MUNDKA : DIST PROT, ZONE-I, DIST 15.11KM.
9	5.8.17	11:26	220KV MUNDKA-KANJHAWALA CKT	5.8.17	19:15	AT MUNDKA : DIST PROT, ZONE-II, DIST 14.8KM, 86A&B. AT KHANJAWALA : NO TRIPPING.
10	5.8.17	11:52	220KV GAZIPUR-PATPARGANJ CKT	28.8.17	11:59	AT GAZIPUR : DIST PORT, ZONE-I, DIST 3.51KM.
11	5.8.17	13:06	400KV DADRI - HARSH VIHAR CKT. - II	5.8.17	13:44	AT HARSH VIHAR : DIST PROT, ZONE-I DIST 35.8KM.
12	6.8.17	09:47	220KV GAZIPUR - MAHARANIBAGH CKT. -I	6.8.17	13:08	AT MAHARANI BAGH : TRIPPED ON COMMON FAILURE AT GAZIPUR : NO TRIPPING.
13	6.8.17	09:47	220KV GAZIPUR - MAHARANIBAGH CKT. -II	6.8.17	13:25	AT MAHARANI BAGH : DIST PROT, DIST 4.5KM. AT GAZIPUR : DIST PORT, ZONE-I, LINE DIFFERENTIAL.
14	6.8.17	11:33	220KV MEHRAULI - BTPS CKT. - II	6.8.17	12:08	AT MEHRAULI : DIST PROT, ZONE-I, DIST 12.55KM. AT BTPS : DIST PORT, ZONE-I, DIST 5.3KM.
15	7.8.17	16:25	NARAINA 220/33KV 100MVA TX-III	7.8.17	17:02	86, I/C TRIPPED ON O/C, R & B PHASE.
16	7.8.17	14:55	220KV BAMNAULI-NARAINA CKT-II	7.8.17	16:01	AT BAMNAULI : DIST. PROT, DIST 26.59KM. AT NARAINA : DIST PROT, DIFFERENTIAL INDICATION.
17	7.8.17	16:25	NARAINA 220/33KV 100MVA TX-III	7.8.17	17:02	86, I/C TRIPPED ON O/C, R & B PHASE.
18	7.8.17	14:55	220KV BAMNAULI-NARAINA CKT-II	7.8.17	16:01	AT BAMNAULI : DIST. PROT, DIST 26.59KM. AT NARAINA : DIST PROT, DIFFERENTIAL INDICATION.
19	8.8.17	10:28	220KV MEHRAULI - BTPS CKT. - II	8.8.17	15:10	AT MEHRAULI : DIST PROT, ZONE-I, DIST 11.56KM, 186. AT BTPS : DIST PROT, DIST 5.5KM. SPS OPERATED ON 66KV CDOT CKT. I&II, 66KV MALVIYA NAGAR CKT. I&II.
20	8.8.17	19:04	220KV GEETA COLONY- PATPARGANJ CKT -II	8.8.17	19:28	AT GEETA COLONY : DIST PROT, ZONE-I, DIST 671MTS. AT PATPARGANJ : DIST PROT, ZONE-II, DIDST 3.7.KM.
21	9.8.17	12:26	SHALIMAR BAGH 220/33KV 100MVA TX-I	9.8.17	15:24	TRIPPED ON 86
22	10.8.17	13:27	220KV BAWANA-SHALIMARBAGH CKT-II	10.8.17	13:29	AT SHALIMARBAGH : AUTO RECLOSE. AT BAWANA : CKT. DID NOT TRIP.
23	11.8.17	03:16	220KV GAZIPUR - BTPS CKT	11.8.17	10:35	AT GAZIPUR : DIST PROT, ZONE-I, DIST 11KM, Y PHASE.
24	11.8.17	10:44	220KV GAZIPUR - BTPS CKT	12.8.17	09:34	AT GAZIPUR : CVT DISAPPEAR. TRIED FROM GAZIPUR, TRIPPED ON POLE DISCREPANCY.
25	11.8.17	11:20	220 KV PATPARGANJ - I.P. CKT-I	11.8.17	11:55	AT I.P. : DIST PROT, DIST 0.745KM, ZONE-I, PHASE. AT PATPARGANJ : 86, 186.
26	11.8.17	11:22	220 KV PATPARGANJ - I.P. CKT-II	11.8.17	15:13	AT PATPARGANJ TRIPPED ON O/C. AT I.P. CKT. DID NOT TRIP.

S. N.	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME (HRS)		DATE	TIME (HRS)	
27	11.8.17	12:47	220 KV PATPARGANJ - I.P. CKT-I	11.8.17	22:43	AT PATPARGANJ: DIST PROT, ZONE-I, 186, 186. AT I.P.: MANUALLY MADE OFF. FIRE REPORTED IN YARD AT I.P.STN. HOT POINT REPORTED AT ISOLATOR OF R PHASE LINE ISOLATOR OF I.P. – PATPARGANJ CKT. –I
28	12.8.17	11:01	220KV WAZIRABAD - MANDOLA CKT-I	12.8.17	12:39	AT WAZIRABAD : DIST PROT, ZONE-I, DIST 7.1151KM, AT MANDOLA : DIST PROT, YB PHASE.
29	14.8.17	10:13	NARELA 220/66KV 100MVA TX-I	14.8.17	12:15	WITHOUT INDICATION.
30	14.8.17	12:27	220KV GOPALPUR- MANDOLACKT-II	14.8.17	12:42	AT GOPALPUR : DIFFERENTIAL TRIP, R&Y PHASE, 86. AT MANDOLA CKT. DID NOT TRIP.
31	14.8.17	12:35	220KV MEHRAULI - VASANT KUNJ CKT.- II	14.8.17	14:55	AT MEHRAULI : DIST PROT, ZONE-II, B PHASE DIST 7.095KM. AT VASANT KUNJ : CKT. DID NOT TRIP.
32	14.8.17	15:03	NARELA 220/66KV 100MVA TX-I	14.8.17	16:38	WITHOUT INDICATION.
33	15.8.17	11:08	220KV WAZIRABAD - MANDOLA CKT-IV	15.8.17	11:34	AT WAZIRABAD : DIST PROT, DIST 3.90KM. AT MANDOLA : DIST PROT, DIST. 10.16KM.
34	15.8.17	11:47	220KV MAHARANI BAGH - SARITA VIHAR CKT	15.8.17	12:14	AT MAHARANI BAGH : DIST PROT, ZONE-I. AT SARITA VIHAR DIST PROT, ZONE-I, DIST 2.86KM.
35	15.8.17	13:30	400KV DADRI - HARSH VIHAR CKT. - II	15.8.17	13:58	AT HARSH VIHAR : DIST PROT, R PHASE, 86. AT DADRI : CKT. DID NOT TRIP.
36	15.8.17	12:36	400KV DADRI-HARSH VIHAR CKT-I	15.8.17	14:10	AT HARSH VIHAR : DIST PROT, ZONE-I, DIST 26.2KM. AT DADRI : CKT. TRIPPED ON DIST PROT.
37	15.8.17	14:15	220KV GEETA COLONY- PATPARGANJ CKT-I	15.8.17	15:16	AT PATPARGANJ : DIST PROT, ZONE-I, DIST 288MTS, 186 & 186. AT GEETA COLONY : DIST PROT, ZONE-II, DIST 4.069KM.
38	15.8.17	18:17	220KV WAZIRABAD - MANDOLA CKT-I	15.8.17	18:48	AT WAZIRABAD : DIST PROT, ZONE-I, DIST 4.30KM.
39	15.8.17	19:20	MASJID MOTH 220/33KV 100MVA TR-III	15.8.17	19:50	DIFFERENTIAL PROT. I/C TRIPPED ON 86.
40	16.8.17	11:21	220KV OKHLA - BTPS CKT.- I	16.8.17	12:57	AT BTPS : DIST PROT, ZONE-I, DIST 3.5KM. AT OKHLA : DIST PROT, ZONE-I, 86, DIST 5.361KM, MASTER RELAY.
41	16.8.17	13:24	220KV BAMNAULI- NAJAFGARH CKT-II	16.8.17	15:43	AT BAMNAULI : DIST PROT, ZONE-I, DIST 61MTS, 186.
42	16.8.17	19:10	INDRAPRASTHA POWER 220/33KV 100MVA TX-I	16.8.17	19:32	O/C, B PHASE, 51NX.
43	16.8.17	19:10	INDRAPRASTHA POWER 220/33KV 100MVA TX-III	16.8.17	19:35	O/C, 86 , ABC PHASE.
44	17.8.17	01:47	220KV MAHARANI BAGH-TRAUMA CENTER CKT-I	17.8.17	17:22	AT MAHARANI BAGH : 86B, AT TRAUMA CENTER : 86 A&B.
45	17.8.17	07:46	SHALIMAR BAGH 220/33KV 100MVA TX-III	17.8.17	17:15	86 & 87.
46	17.8.17	10:27	220KV GOPALPUR- MANDOLACKT-II	17.8.17	11:30	AT GOPALPUR : SUPPLY FAIL FROM MANDOLA.
47	17.8.17	10:27	GOPALPUR 33/11KV, 16MVA TX-I	17.8.17	11:22	86
48	17.8.17	10:27	GOPALPUR 220/33KV 100MVA TX-III	17.8.17	11:12	TR. TRIPPED ON 86, I/C TRIPPED ON INTERTRIPPING.

S. N.	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME (HRS)		DATE	TIME (HRS)	
49	17.8.17	10:27	GOPALPUR 33/11KV, 16MVA TX-II	17.8.17	11:22	86
50	17.8.17	18:40	SHALIMAR BAGH 220/33KV 100MVA TX-III	17.8.17	21:28	I/C TRIPPED ON 86.
51	18.8.17	11:48	220KV GAZIPUR - BTPS CKT	18.8.17	16:16	AT BTPS : DIST PROT, DIST 17.5KM, E/F.
52	18.8.17	14:27	220KV BAMNAULI - DIAL CKT-II	18.8.17	15:08	AT DIAL : DIST PROT, ZONE-I, AT BAMNAULI : DIST PROT, ZONE-I, DIST 9.681KM. SPS OPERATED AT MEHRAULI ON CDOT CKT. I & II, MALVIYA NAGAR CKT. I & II.
53	18.8.17	15:25	220KV BAMNAULI-NAJAFGARH CKT-II	18.8.17	17:35	AT NAJAFGARH : DIST PROT, ZONE-II, DIST 11.7KM. AT BAMNAULI : DIST PROT, ZONE-II, DIST 7.418.
54	18.8.17	19:02	220KV BAWANA - KANJHAWALA CKT - 1	18.8.17	19:38	AT BAWANA : DIST PROT, ZONE-I, DIST 6.12KM. AT KHANJAWALA : DIST PROT, ZONE-I, DIST 15.7KM.
55	19.8.17	08:13	220KV WAZIRABAD - MANDOLA CKT-III	19.8.17	08:38	AT WAZIRABAD : DIST PROT, ZONE-I, DIST 828MTS. AT MANDOLA : CKT. DID NOT TRIP.
56	19.8.17	13:15	PATPARGANJ 220/66 KV 100MVA TX-I	19.8.17	13:36	E/F.
57	19.8.17	13:15	PATPARGANJ 220/66 KV 100MVA TX-II	19.8.17	15:20	E/F.
58	20.8.17	15:27	220KV WAZIRABAD - KASHMEREGATE CKT-II	20.8.17	16:30	AT WAZIRABAD : DIST PROT, ZONE-I, DIST 1.256.
59	21.8.17	09:54	220KV GEETA COLONY- PATPARGANJ CKT -II	21.8.17	10:17	AT PATPARGANJ : DIST. PROT, ZONE-I. AT GEETA COLONY, DIST PROT, ZONE-I, DIST 2.219KM.
60	21.8.17	13:42	220KV BAMNAULI - DIAL CKT-II	21.8.17	15:08	AT BAMNAULI : DIST PROT, ZONE-I, DIST 9.86KM, 186 A&B. AT DIAL : B PHASE TRIP, MAIN-I, B PHASE FAULTY.
61	21.8.17	14:08	220KV GOPALPUR-MANDOLACKT-II	21.8.17	14:55	AT GOPALPUR : DIST PROT, ZONE-I, DIST 19.13KM, B PHASE FAULTY.
62	21.8.17	23:26	220KV MEHRAULI - BTPS CKT. - II	22.8.17	11:47	AT BTPS : DIST PROT, DIST 3.2KM, R PHASE, E/F. SPS OPERATED AT MEHRAULI ON C DOT CKT. I &II, MALVIYA NAGAR CKT. I&II.
63	22.8.17	10:33	220KV WAZIRABAD-GEETA COLONY CKT-I	22.8.17	11:30	AT GEETA COLONY : TRIP A;BC, DIST PROT. AT WAZIRABAD : DIST PROT, ZONE -I.
64	23.8.17	13:23	220KV GAZIPUR - BTPS CKT	23.8.17	16:50	AT BTPS : DIST PROT, ZONE-I, DIST 16.8KM, E/F.
65	23.8.17	16:23	220KV WAZIRABAD - KASHMEREGATE CKT-I	23.8.17	17:57	AT WAZIRABAD : DIST PROT, ZONE-I, DIST 1.333KM. AT KASHMIRI GATE : NO TRIPPING.
66	24.8.17	11:24	KANJHAWALA 220/66KV 100MVA TX-I	24.8.17	13:16	B PHASE DROPPER JUMPER CLAMP BURNT.
67	24.8.17	16:01	220KV MEHRAULI - BTPS CKT. - II	24.8.17	20:19	AT MEHRAULI : DIST PROT, ZONE-I, DIST 14.05KM. AT BTPS : DIST PROT, ZONE-I, DIST 2.5KM, R PHASE, E/F. 66KV C DOT CKT. I&II, MALVIYA NAGAR CKT. I&II ALSO TRIPPED.
68	25.8.17	11:11	220KV MEHRAULI - BTPS CKT. - II	25.8.17	12:10	AT MEHRAULI : DIST PROT, ZONE-I, DIST 13.24KM. 66KV C DOT CKT. I & II & MALVIYA NAGAR CKT. I & II ALSO TRIPPED ON SPR.
69	25.8.17	17:09	220KV GEETA COLONY- PATPARGANJ CKT -II	25.8.17	18:32	AT PATPARGANJ : DIST PROT, ZONE-I, DIST 860.7MTS. AT GEETA COLONY : DIST PROT, ZONE-I, DIST 3.443KM.
70	25.8.17	17:44	220KV GEETA COLONY- PATPARGANJ CKT-I	25.8.17	18:32	AT GEETA COLONY : DIST PROT, ZONE-II, DIST 3.557KM. AT PATPARGANJ : DIST PROT, ZONE-I, DIST 886MTS.

S. N.	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME (HRS)		DATE	TIME (HRS)	
71	26.8.17	14:35	MEHRAULI 220/66KV 100MVA TX-II	26.8.17	16:10	SPARKING OBSERVED ON B PHASE LINE ISOLATOR CLAMP OF 66KV I/C-II.
72	26.8.17	14:40	220KV PRAGATI - SARITA VIHAR CKT - I	26.8.17	15:12	AT SARITA VIHAR : DIST PROT, DIST 15.38KM, AT PRAGATI : DIST PROT, DIST 1.770KM, ZONE-I, 186, O/C, E/F.
73	26.8.17	15:56	220KV WAZIRABAD - MANDOLA CKT-II	26.8.17	15:58	AT WAZIRABAD : TRIPPED WITHOUT INDICATION.
74	26.8.17	18:30	220KV GEETA COLONY- PATPARGANJ CKT -II	26.8.17	18:43	AT PATPARGANJ : DIST PROT, DIST 1.391KM, E/F. AT GEETA COLONY : CKT. DID NOT TRIP.
75	27.8.17	12:14	220KV MEHRAULI - BTPS CKT. - II	27.8.17	14:21	AT MEHRAULI : DIST PROT, ZONE-I, DIST 7.098KM. AT BTPS : DIST PROT, ZONE-I, DIST 12.2KM.
76	27.8.17	12:54	220KV MEHRAULI - BTPS CKT. - I	27.8.17	16:12	AT MEHRAULI : DIST PROT, ZONE-I, DIST 11.01KM. AT BTPS : DIST PROT, ZONE-II, DIST 14.4KM.
77	27.8.17	18:42	220KV GOPALPUR- SUBZI MANDI CKT-II	27.8.17	20:42	AT GOPALPUR : DIST PROT, ZONE-II, DIST 6.201KM, 186. AT SUBZI MANDI : CKT. DID NOT TRIP.
78	28.8.17	05:22	KANJHAWALA 66/11KV, 20MVA TX-I	28.8.17	06:01	OLT, 86, 30G.
79	28.8.17	08:54	220KV GEETA COLONY- PATPARGANJ CKT-I	28.8.17	22:02	AT GEETA COLONY : DIST PROT, ZONE-I, DIST 1.781KM, O/C. AT PATPARGANJ : DIST PROT, DIST 7.206KM, E/F, 186, 186.
80	28.8.17	09:55	220KV GAZIPUR - BTPS CKT	28.8.17	14:03	AT BTPS : DIST PROT, ZONE-I, DIST 14KM.
81	28.8.17	10:01	400KV MUNDKA- JHATIKARA CKT-I	28.8.17	14:40	AT MUNDKA : TRIPPED ON PD.
82	29.8.17	13:43	MASJID MOTH 220/33KV 100MVA TR- III	29.8.17	18:50	TRIPPED ON DIFFERENTIAL, I/C TRIPPED ON 86.
83	29.8.17	16:53	220KV GOPALPUR- MANDOLACKT-I	29.8.17	17:38	AT GOPALPUR : RY PHASE DIFFERENTIAL TRIP, 86ABC. AT MANDOLA DIST PROT, ZONE-II, DIST 21.36KM.
84	30.8.17	22:09	220KV DIAL- MEHRAULI CKT-I	1.9.17	11:50	AT MEHRAULI : DIST PROT, ZONE-I, DIST 3.512KM. AT DIAL DIST PROT, ZONE-I, DIST 3.95KM.
85	31.8.17	12:31	OKHLA 220/33KV 100MVA TX-III	31.8.17	12:40	I/C TRIPPED ON 86, 51A.
86	31.8.17	12:31	OKHLA 220/33KV 100MVA TX-IV	31.8.17	14:35	TR. TRIPPED ON 86, REF, I/C TRIPPED ON 86.
87	31.8.17	15:58	PAPPANKALAN-I 220/66KV 160MVA TX- 5	31.8.17	23:35	TR. TRIPPED ON DIFFERENTIAL, LV REF, I/C TRIPPED ON 86, LA BLAST.
88	31.8.17	15:58	PAPPANKALAN-I 220/66KV 100MVA TX- IV	31.8.17	16:52	TR. TRIPPED ON DIFFERENTIAL, I/C TRIPPED ON 86.

19.6 DETAILS OF 400/220KV BREAKDOWN/TRIPPINGS OCCURRED IN DTL SYSTEM DURING THE MONTH SEPTEMBER 2017

S. N.	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME (HRS)		DATE	TIME (HRS)	
1	1.9.17	06:15	SARITA VIHAR 220/ 66KV 100MVA TX-III	1.9.17	10:40	TRIPPED WITHOUT INDICATION.
2	1.9.17	15:37	220KV MAHARANI BAGH -GAZIPUR CKT- I	1.9.17	17:07	AT GAZIPUR DIST PROT, ZONE-I. AT MAHARANI BAGH : DIST PROT, R PHSE,
3	1.9.17	16:19	220KV MAHARANI BAGH - PRAGATI CKT	1.9.17	16:38	AT PRAGATI : DIST PROT, ZONE-I, CVT AVAILABLE.

S. N.	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME (HRS)		DATE	TIME (HRS)	
4	1.9.17	17:02	PARKSTREET 33KV 10MVAR CAP. BANK-II	1.9.17	18:35	TRIPPED DUE TO BIRDAGE.
5	2.9.17	19:02	220KV WAZIRABAD - KASHMEREGATE CKT-II	2.9.17	22:04	AT WAZIRABAD : DIST PROT, ZONE-I, DIST 1.738KM.
6	3.9.17	09:35	400KV DADRI - HARSH VIHAR CKT. - II	3.9.17	09:58	AT HARSH VIHAR : DIST PROT, ZONE-I, B PHASE.
7	3.9.17	09:47	PATPARGANJ 220/33KV 100MVA TX-IV	3.9.17	13:35	I/C TRIPPED ON E/F.
8	3.9.17	09:47	PATPARGANJ 220/33KV 100MVA TX-III	3.9.17	09:57	I/C TRIPPED ON O/C.
9	4.9.17	10:42	BAWANA 400/220KV 315MVA ICT-I	4.9.17	11:47	TRIPPED ON 186.
10	4.9.17	18:24	220KV GOPALPUR-MANDOLACKT-I	4.9.17	20:03	AT GOPALPUR : DIST PROT, ZONE-I, DIST 5.67KM AT MANDOLA : DIST PROT, DIST 18.7KM.
11	5.9.17	18:28	220KV GEETA COLONY-PATPARGANJ CKT-I	5.9.17	18:31	AT PATPARGANJ : DIST PROT, ZONE-I, DIST 3.793KM.
12	6.9.17	11:25	220KV DIAL-MEHRAULI CKT-II	6.9.17	13:44	AT MEHRAULI : DIST PROT, ZONE-I, DIST 1.648. AT DIAL INTER TRIP. DIFFERENTIAL TRIP.
13	6.9.17	12:09	220KV MEHRAULI - BTPS CKT. - II	6.9.17	13:52	AT MEHRAULI : DIST PROT, TRIP PHASE ABC, 186. AT BTPS : DIST PROT, ZONE-I, DIST 14.8KM. 66KV MALVIYA NAGAR CKT. I&II, CDOT CKT. I&II TRIPPED ON SPS OPERAITON.
14	6.9.17	14:30	220KV BAWANA-SHALIMARBAGH CKT-I	6.9.17	15:48	AT SHALIMARBAGH : DIFFERENTIAL TRIP, 186, AT BAWANA A&C PHASE, DIST PROT, DIST 1.20KM, ZONE-I.
15	8.9.17	11:34	220KV BAWANA-DSIIDC BAWANA CKT-I	8.9.17	14:04	AT DSIDC BAWANA : 86, PHASE ABC, DIFFERENTIAL TRIP, RY PHASE. AT BAWANA : LBB C PHASE.
16	8.9.17	12:10	220KV BAWANA-SHALIMARBAGH CKT-I	8.9.17	17:24	AT BAWANA : DIST PROT, ZONE-II & III, DIST 13.52KM, DIFFERENTIAL TRIP. AT SHALIMARBAGH : DIFFERENTIAL TRIP, R PHASE.
17	8.9.17	12:26	220KV MAHARANI BAGH - PRAGATI CKT	8.9.17	14:50	AT MAHARANI BAGH : DIST PROT, ZONE-I, DIST 3.0KM. AT PRAGATI : DIST PROT, ZONE-I, DIST 1.129KM.
18	9.9.17	12:58	220KV PRAGATI - SARITA VIHAR CKT - I	9.9.17	13:39	AT PRAGATI : O/C, E/F, DIST PROT, DIST 1.887KM. AT SARITA VIHAR DIST PROT, DIST 17.78KM, 86.
19	10.9.17	11:50	220KV NARELA - MANDOLA CKT-I	10.9.17	12:14	AT NARELA : DIFFERENTIAL PROT, R PHASE. AT MANDOLA : CKT. DID NOT TRIP.
20	10.9.17	12:43	220KV MEHRAULI - BTPS CKT. - I	10.9.17	14:27	AT BTPS : DIST PROT, ZONE-I, DIST 23.KM, B PHASE. AT MEHRAULI : DIST PROT, ZONE-II, DIST 18.2.KM, AB&C PHASE.
21	10.9.17	12:45	220KV MEHRAULI - BTPS CKT. - II	10.9.17	19:50	AT BTPS : DIST PROT, ZONE-I, DIST 4.2.KM, R PHASE. AT MEHRAULI : MANUALLY MADE OFF .
22	10.9.17	12:46	220KV BAMNAULI-NARAINA CKT-II	10.9.17	16:07	AT BAMNAULI : : BUS BAR PROTECTION OPERATED. AT NARAINA : SUPPLY FAILED.
23	10.9.17	12:46	220KV BAMNAULI - DIAL CKT-I	10.9.17	13:12	AT BAMNAULI : BUS BAR PROTECTION OPERATED. AT DIAL : SUPPLY FAILED.

S. N.	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME (HRS)		DATE	TIME (HRS)	
24	10.9.17	12:46	220KV BAMNAULI-NARAINA CKT-I	10.9.17	16:07	AT BAMNAULI : : BUS BAR PROTECTION OPERATED. AT NARAINA : SUPPLY FAILED.
25	10.9.17	12:46	BAMNAULI 400/220KV 500MVA ICT-II	10.9.17	14:31	ICT TRIPPED ON GROUP I&II, 86A, 220KV I/C -II TRIPPED ON 86
26	10.9.17	13:18	MEHRAULI 220/66KV 160MVA TX-I	10.9.17	14:50	TRIPPED ON DIFFERENTIAL
27	10.9.17	13:18	220KV BAMNAULI - DIAL CKT-I	10.9.17	13:40	AT BAMNAULI : BUS SECTION -II TRIPPED. AT DIAL : SUPPLY FAILED.
28	11.9.17	05:40	NARAINA 220/33KV 100MVA TX-II	11.9.17	12:30	33KV I/C TRIPPED ON O/C, E/F.
29	11.9.17	05:40	NARAINA 220/33KV 100MVA TX-III	11.9.17	05:50	TR. TRIPPED ON O/C, E/F. 33KV I/C TRIPPED ON O/C, E/F.
30	11.9.17	11:42	220KV OKHLA - BTPS CKT. - II	11.9.17	12:00	AT BTPS : DIST PROT, ZONE-II, DIST 8KM. AT OKHLA : CKT. DID NOT TRIP.
31	11.9.17	14:45	220KV DIAL-MEHRAULI CKT-II	11.9.17	16:32	AT DIAL : DST PROT, DIST 11.2KM, GEN. TRIP. AT MEHARULI : 186A&B, DIST PROT, ZONE-I, DIST 1.1KM.
32	11.9.17	19:48	220KV NARAINA-RIDGE VALLEY CKT-I	11.9.17	19:56	AT NARAINA : DIRECTIONAL EARTH FAULT, 186, 186X, AUTO RECLOSE.
33	13.9.17	08:26	220KV MEHRAULI - VASANT KUNJ CKT. - II	13.9.17	10:17	AT MEHRAULI : DIST PROT, ZONE-I, DIST 3.652KM, 186A&B. AT VASANT KUNJ : CKT. DID NOT TRIP.
34	13.9.17	13:14	220KV DIAL-MEHRAULI CKT-II	13.9.17	14:20	AT DIAL : GEN TRIP, LINE DIFFERENTIAL, DIST PROT, DIST 11.2KM. AT MEHRAULI : DIST PROT, ONE-I, DIST 1.321KM.
35	17.9.17	12:17	220KV GAZIPUR - MAHARANIBAGH CKT. -II	17.9.17	14:50	AT GAZIPUR DIST PROT, ZONE-I, DIFFERENTIAL. AT MAHARANI BAGH : 86A.
36	18.9.17	09:40	220KV MUNDKA-NAJAFGARH CKT	18.9.17	13:44	AT MUNDKA : GROUP A&B. AT NAJAFGARH : DIST PROT, DIST 6.4KM.
37	19.9.17	06:10	SUBZI MANDI 33/11KV, 16MVA TX-I	19.9.17	06:20	TR. TRIPPED ON DIFFERENTIAL, 86.
38	19.9.17	09:12	220KV GAZIPUR - BTPS CKT	19.9.17	20:55	AT BTPS : E/F, R PHASE, DIST PROT, ZONE-I, DIST 10.44KM.
39	20.9.17	09:30	220KV MEHRAULI - VASANT KUNJ CKT.-I	20.9.17	11:22	AT MEHRAULI : DIST PROT, DIST 16.11KM, RB PHASE. AT VASANT KUNJ : CKT. DID NOT TRIP.
40	20.9.17	10:52	220KV GAZIPUR - BTPS CKT	20.9.17	14:05	AT BTPS : DIST PROT, ZONE-I, DIT 16.4KM.
41	20.9.17	14:10	220KV MEHRAULI - VASANT KUNJ CKT.-I	20.9.17	16:12	AT MEHRAULI : DIST PROT, ZONE-I, DIST 10.62KM. AT VASANT KUNJ : CKT. DID NOT TRIP.
42	20.9.17	15:37	220KV BAWANA - KANJHAWALA CKT - I	20.9.17	17:27	AT KHANJAWALA : DIST PROT, ZONE-I, DIST 20.32KM. AT BAWANA : DIST PROT, ZONE-I, DIST 8.06KM.
43	21.9.17	19:55	220KV MUNDKA-NAJAFGARH CKT	21.9.17	21:00	AT MUNDKA : TRIPPED O DIST PROT, ZONE-I, DIST 3.33KM.
44	22.9.17	09:08	HARSH VIHAR 220/66KV 160MVA ICT-2	22.9.17	13:40	TRIPPED ON O/C, RYB PHASE.
45	22.9.17	10:18	220KV PRAGATI - SARITA VIHAR CKT - I	22.9.17	18:36	AT SARITA VIHAR : DIST PROT, ZONE-II & III, DIST 10.72KM.
46	22.9.17	10:46	GOPALPUR 220/33KV 100MVA TX-I	22.9.17	11:10	I/C -I TRIPPED ON E/F
47	22.9.17	16:48	OKHLA 220/66KV 100MVA TX-II	22.9.17	17:07	66KV I/C-II TRIPPED WITHOUT INDICATION, TR. TRIPPED ON DIFFERENTIAL, RYB PHASE, REF LV SIDE, 86 & 186.
48	23.9.17	06:15	220KV BAMNAULI-PAPPANKALAN-I CKT-I	23.9.17	10:51	AT BAMNAULI : TRIPPED ON DIST PROT ZONE-I, DIST 1.584KM. AT PAPANALAN-I : TRIPPED ON DIST PROT, B PHASE, DIFFERENTIAL TRIP.

S. N.	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME (HRS)		DATE	TIME (HRS)	
49	23.9.17	06:35	PEERA GARHI 220/33 KV 100MVA TX-II	23.9.17	10:42	TR. TRIPPED ON 86A&B, PRV.
50	23.9.17	19:00	220 KV I.P.- RPH CKT-I	24.9.17	17:40	AT RAJGHAT : TRIPPED ON 186A&B, 195ABC. AT IP CKT. DID NOT TRIPPED.
51	24.9.17	12:10	220KV MAHARANI BAGH - SARITA VIHAR CKT	24.9.17	21:04	AT MAHARANI BAGH : DIST PROT, ZONE-I, DIST 4.0KM. AT SARITA VIHAR : DIST PROT, ZONE-I, DIST 7.243KM.
52	24.9.17	17:10	220KV MAHARANI BAGH - SARITA VIHAR CKT	24.9.17	21:04	AT MAHARANI BAGH : DIST PROT, ZONE-I, DIST 4.0KM AT SARITA VIHAR : DIST PROT, ZONE-I, DIST 7.243KM.
53	26.9.17	13:12	SHALIMAR BAGH 220/33KV 100MVA TX-III	26.9.17	17:24	TR. TRIPPED ON DIFFERENTIAL.
54	27.9.17	11:12	220KV BAMNAULI-PAPPANKALAN-I CKT-I	27.9.17	13:03	AT PAPANALAN-I : DIST PROT, DIFFERENTIAL, 86. AT BAMNAULI : DIST PROT, DIST 10.53KM, 186A&B.
55	27.9.17	14:48	220KV BAMNAULI-PAPPANKALAN-II CKT-I	27.9.17	15:25	AT BAMNAULI : DIST PROT, ZONE-I, DIST 4.828KM, 186. AT PAPANALAN-II : CKT. DID NOT TRIP.
56	28.9.17	07:05	MEHRAULI 66/11KV, 20MVA TX-I	28.9.17	13:56	TR. TRIPPED ON 86, O/C.
57	28.9.17	12:45	220KV MEHRAULI - BTPS CKT. - I	28.9.17	15:30	AT MEHRAULI : DIST PROT, ZONE-I, DIST 12.03KM. AT BTPS : DIST PROT, ZONE-I, DIST 10.4KM, E/F.
58	28.9.17	17:06	220KV MEHRAULI - VASANT KUNJ CKT.- II	28.9.17	18:44	AT MEHRAULI : DIST PROT, ZONE-I, DIST 3.875KM. AT VASANT KUNJ : CKT. DID NOT TRIP.
59	29.9.17	07:28	PAPPANKALAN-I 220/66KV 100MVA TX-IV	29.9.17	09:47	E/F, 86.
60	29.9.17	12:12	220KV BAMNAULI - DIAL CKT-II	29.9.17	13:02	AT BAMNAULI : 186A&B, B PHASE, DIFFERENTIAL AT DIAL : DIFFERENTIAL TRIP.
61	29.9.17	15:40	220KV PRAGATI - SARITA VIHAR CKT - I	29.9.17	17:33	AT SARITA VIHAR : DIST PROT, ZONE-I, DIST 2.55KM AT PRAGATI : DIST PROT, ZONE-II, III, DIST 12.65KM.
62	30.9.17	12:05	220KV BAMNAULI - DIAL CKT-I	30.9.17	20:36	AT DIAL : DIST PROT, ZONE-I, DIST 1.59KM. AT BAMNAULI : DIST PROT, ZONE-I, DIST 13.29KM.
63	30.8.17	22:09	220KV DIAL-MEHRAULI CKT-I	1.9.17	15:50	AT MEHRAULI : DIST PROT, ZONE-I, DIST 3.512KM. AT DIAL DIST PROT, ZONE-I, DIST 3.95KM.

19.7 DETAILS OF 400/220KV BREAKDOWN/TRIPPINGS OCCURRED IN DTL SYSTEM DURING THE MONTH OCTOBER 2017

S. N.	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME (HRS)		DATE	TIME (HRS)	
1	1.10.17	09:40	PAPPANKALAN-I 220/66KV 160MVA TX-5	1.10.17	10:25	I/C TRIPPED WITHOUT INDICATION.
2	1.10.17	09:40	PAPPANKALAN-I 220/66KV 100MVA TX-IV	1.10.17	10:25	TRIPPED ON 80A&B, I/C TRIPPED ON O/C, E/F.
3	1.10.17	11:32	220KV GAZIPUR - BTPS CKT	1.10.17	17:30	AT BTPS : DIST PROT, ZONE-I, DIST 17.2KM, E/F, R PHASE.
4	2.10.17	07:22	220KV BAMNAULI-NARAINA CKT-I	2.10.17	08:00	AT NARAINA : DIST PROT, 86A, DIFFERENTIAL TRIP. AT BAMNAULI : DIST PROT, ZONE-I, DIST 11.39KM.

S. N.	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME (HRS)		DATE	TIME (HRS)	
5	2.10.17	09:01	GEETA COLONY 220/33KV 100MVA TX-II	2.10.17	14:13	TRIPPED ON 86, BUCHOLZ.
6	2.10.17	12:22	220KV MEHRAULI - BTPS CKT. - II	2.10.17	14:03	AT MEHRAULI : DIST PROT, ZONE-I, DIST 7.396KM. AT BTPS : DIST PROT, ZONE-I, DIST 14.4KM.
7	2.10.17	12:33	220KV GAZIPUR - BTPS CKT	2.10.17	18:52	AT BTPS : DIST PROT, ZONE-I, DIST 15.7KM.
8	2.10.17	12:58	220KV GOPALPUR- MANDOLACKT-I	2.10.17	15:44	AT GOPALPUR : DIST PROT, DIST 3.292KM., AT MANDOLA : DIST PROT, DIST 20.7KM.
9	3.10.17	13:58	220KV BAMNAULI- NARAINA CKT-II	3.10.17	14:32	AT BAMNAULI : DIST PROT, ZONE-I, DIST 6.186KM. AT NARAINA : A PHASE DIFFERENTIAL.
10	4.10.17	12:06	KANJHAWALA 66/11KV, 20MVA TX-II	4.10.17	12:24	TRIPPED ON 86.
11	5.10.17	13:27	220KV MEHRAULI - VASANT KUNJ CKT.- II	5.10.17	16:40	AT MEHRAULI : DIST PROT, ZONE-I, DIST 17.19KM.
12	7.10.17	04:07	220KV MEHRAULI - BTPS CKT. - I	7.10.17	17:16	AT MEHRAULI : DIST PROT, ZONE-I, DIST 14.49KM. AT BTPS DIST PROT, ZONE-I, DIST 3KM.
13	8.10.17	07:35	OKHLA 220/33KV 100MVA TX-IV	8.10.17	15:05	TRIPPED ON 86.
14	8.10.17	11:24	220KV GAZIPUR - BTPS CKT	8.10.17	15:05	AT BTPS : DIST PROT ZONE-I, DIST 10.2KM.
15	9.10.17	03:58	220KV BAMNAULI- PAPPANKALAN-I CKT-I	9.10.17	08:16	AT PAPPANKALAN-I : POLE DISCREPANCY. AT BAMNAULI : CKT DID NOT TRIPPED.
16	9.10.17	13:09	220KV BAMNAULI - DIAL CKT-I	9.10.17	15:05	AT DIAL : TRIPPED ON GEN TRIP, LINE DIFFERENTIAL. AT BAMNAULI : DIST PROT, R PHASE, 186A&B.
17	11.10.17	01:15	MEHRAULI 220/66KV 100MVA TX-III	11.10.17	01:17	I/C TRIPPED ON O/C, E/F.
18	11.10.17	01:15	MEHRAULI 220/66KV 100MVA TX-I	11.10.17	01:17	I/C TRIPPED ON O/C, E/F.
19	12.10.17	09:45	220KV MEHRAULI - BTPS CKT. - I	12.10.17	10:13	AT BTPS : DIST PROT, ZONE-I, DIST 2.0KM, E/F. AT MEHRAULI : DIST PROT. ZONE-II, DIST 15.14KM, ACTIVE GROUP-I, TRIP PHASE ABC.
20	13.10.17	11:36	220KV DIAL- MEHRAULI CKT-II	13.10.17	13:25	AT DIAL : LINE DIFFERENTIAL, GEN TRIP. AT MEHRAULI : 186, 186
21	13.10.17	12:42	220KV MEHRAULI - BTPS CKT. - I	13.10.17	15:50	AT MEHRAULI : DIST PROT, ZONE-I, DIST 13.15KM. AT BTPS : DIST PROT, ZONE-I, DIST 3.9KM, E/F.
22	14.10.17	05:55	NAJAFGARH 66/11KV, 20MVA TX-II	14.10.17	09:05	TRIPPED ON BUCHHOLZ RELAY.
23	14.10.17	09:30	400KV DADRI - HARSH VIHAR CKT. - II	14.10.17	10:17	AT HARSH VIHAR, DIST PROT, ZONE-I, R PHASE, 86, E/F. AT DADRI CKT. DID NOT TRIP.
24	14.10.17	10:18	BAWANA 400/220KV 315MVA ICT-VI	14.10.17	12:20	I/C TRIPPED ON AUTO TRIP.
25	14.10.17	10:18	BAWANA 400/220KV 315MVA ICT-V	14.10.17	12:25	I/C TRIPPED ON AUTO TRIP.
26	14.10.17	10:18	BAWANA 400/220KV 315MVA ICT-IV	14.10.17	12:57	I/C TRIPPED ON AUTO TRIP.
27	14.10.17	10:18	BAWANA 400/220KV 315MVA ICT-II	14.10.17	11:38	86, 186A&B.
28	14.10.17	10:18	BAWANA 400/220KV 315MVA ICT-I	14.10.17	12:03	I/C TRIPPED ON AUTO TRIP.

S. N.	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME (HRS)		DATE	TIME (HRS)	
29	14.10.17	10:18	BAWANA 400/220KV 315MVA ICT-III	14.10.17	11:28	86, 186A&B.
30	16.10.17	17:19	220KV GAZIPUR - BTPS CKT	16.10.17	19:51	AT BTPS : DIST PROT, ZONE-I, DIST 17.1KM, E/F.
31	17.10.17	15:28	220KV MAHARANI BAGH-MASJID MOTH CKT-II	17.10.17	15:40	AT MAHARANI BAGH : TRIPPED WITHOUT INDICATION. AT MASJID MOTH : CKT. DID NOT TRIP.
32	17.10.17	15:40	220KV WAZIRABAD - KASHMERE GATE CKT-I	17.10.17	15:41	AT KASHMIRI GATE : TRIPPED DURING TESTING BY PROT, DEPTT.
33	17.10.17	15:51	220KV MAHARANI BAGH-MASJID MOTH CKT-II	17.10.17	18:05	AT MAHARANI BAGH : TRIPPED WITHOUT INDICATION. AT MASJID MOTH : CKT. DID NOT TRIP.
34	17.10.17	19:27	220KV MUNDKA-NAJAFGARH CKT	18.10.17	14:53	AT MUNDKA : TRIPPED WITHOUT INDICATION. AT NAJAFGARH : CKT. DID NOT TRIP.
35	18.10.17	03:18	BAMNAULI 400/220KV 500MVA ICT-III	18.10.17	09:20	TRIPPED WITHOUT INDICATION.
36	18.10.17	13:02	220KV ROHINI-SHALIMARBAGH CKT-I	18.10.17	17:21	AT ROHINI : DIST PROT, ZONE-I, RB PHASE.
37	18.10.17	22:03	220KV BAMNAULI-PAPPANKALAN-II CKT-II	18.10.17	22:29	AT PAPPANKALAN-II : TRIPPED ON DIST PROT, ZONE-I, CN PHASE.
38	19.10.17	10:24	220KV GAZIPUR - BTPS CKT	19.10.17	13:59	AT BTPS : TRIPPED ON DIST PROT, ZONE-I, DIST 14.7KM.
39	19.10.17	22:45	220KV BAMNAULI-PAPPANKALAN-I CKT-I	20.10.17	11:12	AT PAPPANKALAN-I : TRIPPED ON PD AT BAMNAULI : CKT .DID NOT TRIPPED.
40	20.10.17	16:55	OKHLA 66/11KV, 20MVA TX-II	20.10.17	21:05	TR. TRIPPED ON R&B PH , O/C ALONGWITH 11KV ALAKHNANDA, A-12 S/STN, A-8 S/STN, TARA APPT, GOVINDPURI S/STN.
41	21.10.17	13:03	INDRAPRASTHA POWER 220/33KV 100MVA TX-I	21.10.17	13:25	I/C-I TRIPPED ON O/C.
42	21.10.17	13:03	INDRAPRASTHA POWER 220/33KV 100MVA TX-II	21.10.17	13:25	TR. TRIPPED WITHOUT INDICATION .
43	22.10.17	02:56	INDRAPRASTHA POWER 220/33KV 100MVA TX-III	22.10.17	18:15	TRIPPED ON 186, 186A.
44	22.10.17	14:26	220KV NARELA - MANDOLA CKT-I	22.10.17	14:28	AT NARELA : DIST PROT, DIST 4.082KM, 86A.
45	24.10.17	06:48	INDRAPRASTHA POWER 220/33KV 100MVA TX-II	24.10.17	11:20	DIFFERENTIAL.
46	24.10.17	17:41	NARELA 66/33KV, 30MVA TX	25.10.17	00:45	I/C TRIPPED ON E/F ALONGWITH 33KV AIR KHAMPUR FEEDER.
47	25.10.17	10:18	PAPPANKALAN-I 66/11KV, 20MVA TX-I	25.10.17	11:02	TR. TRIPPED ON 86, 51AB ALONGWITH 2NOS 11KV FEEDER, NCID & BANGALI COLLONY WHICH TRIPED ON E/F.
48	25.10.17	18:43	OKHLA 66/11KV, 20MVA TX-II	25.10.17	22:17	TR. TRIPPED ON O/C, E/F, R&B PHASE, I/C TRIPPED ON O/C, E/F. WITH FLASH IN 11KV BUS SECTION.
49	26.10.17	02:41	400KV BALLABHGARH-BAMNAULI CKT-I	26.10.17	06:40	AT BAMNAULI : CKT. TRIPPED ON 186A&B, DIST PROT, ZONE-I, DIST 32KM.
50	27.10.17	14:53	220KV MEHRAULI - BTPS CKT. - II	27.10.17	18:17	AT BTPS : DIST PROT, DIST 7.1KM, E/F. AT MEHRAULI : DIST PROT, TRIP PHASE ABC.

S. N.	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME (HRS)		DATE	TIME (HRS)	
51	28.10.17	12:38	220KV MAHARANI BAGH - PRAGATI CKT	28.10.17	15:22	AT PRAGATI : DIST PROT, ZONE-I, DIST 3.545KM, E/F. AT MAHARANI BAGH : DIST PROT, ZONE-I, II, DIST 3.9KM.
52	28.10.17	16:54	220KV BAMNAULI-PAPPANKALAN-I CKT-I	28.10.17	21:15	AT PAPPANKALAN-I : DIST PROT, DIFFERENTIAL AT BAMNAULI : DIST PROT, DIST 2.137KM.
53	29.10.17	17:25	220KV WAZIRABAD - MANDOLA CKT-I	30.10.17	12:07	AT WAZIRABAD : DIST PROT, ZONE-I, II & III, DIST 8.338KM. AT MANDOLA : DIST PROT, DIST 6.09KM.
54	31.10.17	02:52	MASJID MOTH 220/33KV 100MVA TR-III	31.10.17	13:10	TRIPPED ON OVER FLUX, 86-1, 86-2.
55	31.10.17	05:55	220KV PREET VIHAR-PATPARGANJ CKT-II	31.10.17	07:31	AT PREET VIHAR : DIST POT, DIST 6.80KM. AT PATPARGANJ : CKT. DID NOT TRIP.
56	31.10.17	22:24	220KV BAMNAULI-PAPPANKALAN-II CKT-II	31.10.17	22:39	AT PAPPANKALAN-2 : DIST PROT, ZONE-I. AT BAMNAULI : CKT. DID NOT TRIP.

19.8 DETAILS OF 400/220KV BREAKDOWN/TRIPPINGS OCCURRED IN DTL SYSTEM DURING THE MONTH NOVEMBER 2017

S. N.	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME (HRS)		DATE	TIME (HRS)	
1	3.11.17	00:25	NAJAFGARH 66/11KV, 20MVA TX-II	3.11.17	09:55	TRIPPED ON 86.
2	3.11.17	13:46	220KV MAHARANI BAGH - PRAGATI CKT	3.11.17	17:53	AT MAHARANI BAGH : DIST PROT, ZONE-I, DIST 0.3KM. AT PRAGATI DIST PROT, ZONE-II, DIST 3.96KM, 86, 186.
3	4.11.17	17:21	GOPALPUR 220/33KV 100MVA TX-III	4.11.17	21:21	TR. TRIPPED WITH I/C ON 186, R PHSE DIFFERENTIAL.
4	4.11.17	21:14	GOPALPUR 220/33KV 100MVA TX-III	4.11.17	22:50	TRIPPED ON DIFFERENTIAL.
5	7.11.17	09:27	220KV GOPALPUR-SUBZI MANDI CKT-I	7.11.17	10:03	AT GOPALPUR : DIST PROT, ZONE-I, DIST 0.754KM. AT SUBZI MANDI CKT. DID NOT TRIP.
6	8.11.17	01:45	220KV GOPALPUR-MANDOLACKT-II	8.11.17	05:06	AT GOPALPUR : DIFFERENTIAL TRIP, 86ABC.
7	8.11.17	03:09	220KV BAMNAULI-PAPPANKALAN-II CKT-I	8.11.17	08:26	AT BAMNAULI : DIST PROT, ZONE-I, DIST 14.2KM, E/F. AT PAPPANKALAN-II : DIST PROT, ZONE-IV, 86.
8	8.11.17	04:40	OKHLA 220/66KV 100MVA TX-I	8.11.17	15:30	I/C TRIPPED ON O/C, B PHASE.
9	8.11.17	04:48	220KV BAWANA - KANJHAWALA CKT-2	8.11.17	08:30	AT BAWANA : DIST PROT, ZONE-I, DIST 3.74KM, 86. AT KHANJAWALA : DIST PROT, DIST 24.36KM, RYB PHASE.
10	8.11.17	04:48	220KV BAWANA - KANJHAWALA CKT-2	8.11.17	13:44	AT KHANJAWALA : DIST PROT, ZONE-II, DIST 24.36KM. AT BAWANA : CKT. DID NOT TRIPPED.
11	8.11.17	05:01	220KV DSIDC BAWANA-NARELA CKT-II	8.11.17	17:48	AT NARELA : DIST PROT, ZONE-I, DIST 2.7KM.
12	8.11.17	05:02	220KV WAZIRABAD-GEETA COLONY CKT-II	8.11.17	08:40	AT GEETA COLONY : DIST PROT, ZONE-I, DIST 939MTS. AT WAZIRABAD CKT. DID NOT TRIP.

S. N.	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME (HRS)		DATE	TIME (HRS)	
13	8.11.17	05:07	WAZIRABAD 220/66 KV 100MVA TX-II	8.11.17	11:29	TR. TRIPPED ON E/F.
14	8.11.17	05:20	220KV WAZIRABAD - MANDOLA CKT-I	8.11.17	09:03	AT WAZIRABAD : SUPPLY FAILED+H33 FROM MANDOLA.
15	8.11.17	05:28	220KV GOPALPUR-SUBZI MANDI CKT-I	8.11.17	07:35	AT GOPALPUR : DIST PROT ,ZONE-I, DIST 6.029KM, 86ABC. AT SUBZIMANDI : CKT. DID NOT TRIP.
16	8.11.17	05:37	220KV BAWANA - KANJHAWALA CKT - I	8.11.17	08:56	AT BAWANA : DIST PROT, ZONE-I, DIST 4.18KM, O/C. AT KHANJAWALA : CKT. DID NOT TRIP.
17	8.11.17	06:05	SARITA VIHAR 220/66KV 100MVA TX-III	8.11.17	13:50	TRIPPED ON REF.
18	8.11.17	11:24	OKHLA 66/11KV, 20MVA TX-I	8.11.17	13:05	TR. TRIPPED ON O/C, 86.
19	8.11.17	18:45	220KV MEHRAULI - BTPS CKT. - II	8.11.17	23:15	AT MEHRAULI : DIST PROT, ZONE-I, DIST 9.431KM.
20	9.11.17	01:00	SARITA VIHAR 220/66KV 100MVA TX-III	9.11.17	15:57	TR. TRIPPED ON 86AB.,
21	10.11.17	08:55	WAZIRABAD 220/66 KV 100MVA TX-II	10.11.17	17:01	TRIPPED ON E/F.
22	11.11.17	10:14	220KV BAWANA-SHALIMARBAGH CKT-II	11.11.17	12:41	AT BAWANA : DIST PROT, ZONE-I, DIST 0.7KM. AT SHALIMARBAGH : CKT. DID NOT TRIP.
23	11.11.17	11:16	LODHI RD 220/33KV 100MVA TR. -III	11.11.17	13:42	TR. TRIPPED ON 86.
24	11.11.17	15:35	OKHLA 66/11KV, 20MVA TX-I	11.11.17	18:35	TR. TRIPPED ON O/C, 186
25	12.11.17	08:35	GAZIPUR 66/11KV, 20MVA TX-II	12.11.17	11:20	TR. TRIPPED ON 86.
26	13.11.17	06:46	220KV PRAGATI - PARK STREET CKT-II	13.11.17	06:47	CKT. TRIPPED WHILE CHARGING.
27	16.11.17	02:18	220KV PRAGATI - SARITA VIHAR CKT - I	16.11.17	02:47	AT SARITA VIHAR : DIST PROT, ZONE-I, DIST 480MTS. AT PRAGATI : DIST PROT, ZONE-II, DIST 13.03KM.
28	16.11.17	02:18	220KV MAHARANI BAGH - SARITA VIHAR CKT	16.11.17	02:36	AT MAHARANI BAGH : R PHASE, GEN TRIP, AT SARITA VIHAR : CKT. DID NOT TRIP.
29	16.11.17	02:18	SARITA VIHAR 220/66KV 100MVA TX-III	16.11.17	14:02	TR. TRIPPED ON REF, 86A&B.
30	16.11.17	02:20	220KV GAZIPUR - NOIDA SEC.-62 CKT	16.11.17	10:05	AT GAZIPUR : B PHASE, E/F, 86A.
31	16.11.17	08:05	SARITA VIHAR 220/66KV 100MVA TX-I	16.11.17	09:28	TRIPPED ON 86, 30B.
32	17.11.17	08:39	ROHINI-II 220/66KV 160MVA TX-II	17.11.17	08:57	I/C TRIPPED ON 86.
33	20.11.17	05:50	VASANT KUNJ 66/11KV, 20MVA TX-I	20.11.17	10:50	TRIPPED ON OLTC.
34	21.11.17	14:51	220KV ROHINI-SHALIMARBAGH CKT-I	21.11.17	15:23	AT ROHINI : DIST PROT, 186A&B. AT SHALIMARBAGH : DIST PROT.
35	22.11.17	00:03	NARAINA 220/33KV 100MVA TX-II	22.11.17	17:38	FIRE REPORTED NEAR CONTROL CABLE.
36	22.11.17	16:52	LODHI RD 220/33KV 100MVA TR. -III	22.11.17	17:22	TRIPPED WITHOUT INDICATION.

S. N.	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME (HRS)		DATE	TIME (HRS)	
37	23.11.17	18:04	220KV KANJHAWALA -NAJAFGARH CKT	25.11.17	15:27	AT KHANJAWALA : DIST PROT, ZONE-I.
38	24.11.17	18:18	220KV KANJHAWALA -NAJAFGARH CKT	25.11.17	15:20	AT KHANJAWALA : DIST PROT, ZONE-I, DIST 7.0KM.
39	26.11.17	13:38	220KV GOPALPUR-MANDOLACKT-I	26.11.17	14:25	AT GOPALPUR : DIST PROT, DIST 21.86KM. AT MANDOLA : DIST PROT, DIST 7.5KM.
40	26.11.17	01:13	SARITA VIHAR 220/66KV 100MVA TX-III	26.11.17	02:15	I/C TRIPPED ON 86.
41	26.11.17	01:31	PARK STREET 220/33KV 100MVA TR. -II	26.11.17	02:10	PROBLEM IN BREAKER.
42	26.11.17	03:57	MASJID MOTH 220/33KV 100MVA TR. -II	26.11.17	10:20	TR. TRIPPED ON E/F, O/C, I/C TRIPPED ON 86
43	26.11.17	07:32	GAZIPUR 220/66KV 100MVA TR. -I	26.11.17	17:05	TR. TRIPPED ON 86, E/F.
44	27.11.17	02:02	220KV MAHARANI BAGH - ELECTRIC LANE CKT-I	27.11.17	03:15	AT ELECTRIC LANE : DIST PROT, TRIP PHASE ABC. AT MAHARANI BAGH : CKT. DID NOT TRIP.
45	28.11.17	06:07	220KV SHALIMAR BAGH - DMRC CKT	28.11.17	14:04	AT SHALIMARBAGH : O/C, RYB PHASE, C PHASE CONDUCTOR DAMAGED.
46	29.11.17	06:07	220KV SHALIMAR BAGH-WAZIRPUR CKT-I	29.11.17	09:47	AT WAZIRPUR : DIST PROT, ZONE-II.
47	30.11.17	20:10	TRAUMA CENTER 220/33KV 100MVA TX-II	30.11.17	22:10	I/C -I TRIPPED ON 86AB.
48	30.11.17	20:10	TRAUMA CENTER 220/33KV 100MVA TX-I	30.11.17	22:10	I/C -I TRIPPED ON 86AB.

19.9 DETAILS OF 400/220KV BREAKDOWN/TRIPPINGS OCCURRED IN DTL SYSTEM DURING THE MONTH DECEMBER 2017

S. N.	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME (HRS)		DATE	TIME (HRS)	
1	1.12.17	03:40	220 KV TRAUMA CENTER-RIDGE VALLEY CKT-2	1.12.17	08:36	AT RIDGE VALLEY : GOVERNOR TRIP, AT TRAUMA CENTER : CKT. DID NOT TRIP.
2	1.12.17	07:10	VASANT KUNJ 66/11KV, 20MVA TX-I	1.12.17	10:25	TR. TRIPPED ON OLTC, BUCHOLZ.
3	1.12.17	23:55	PATPARGANJ 220/66KV 100MVA TX-I	1.12.17	23:57	TRIPPED WITHOUT INDICATION.
4	3.12.17	04:25	NARAINA 220/33KV 100MVA TX-III	3.12.17	04:50	I/C -III TRIPPED E/F.
5	3.12.17	12:21	220KV PRAGATI - SARITA VIHAR CKT - I	3.12.17	16:26	AT SARITA VIHAR : DIST PROT, ZONE-II, DIST 13.75KM. AT PRAGATI : O/C, E/F, DIST PROT, ZONE-II, DIST 0.261KM.
6	7.12.17	13:22	KASHMIRI GATE 220/33KV 100MVA TX-II	7.12.17	13:23	TRIPPED DURING PROTECTION TESTING.
7	9.12.17	03:58	INDRAPRASTHA POWER 220/33KV 100MVA TX-III	9.12.17	17:20	TRIPPED ON BUCHOLZ.

S. N.	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME (HRS)		DATE	TIME (HRS)	
8	9.12.17	17:29	400KV DADRI-HARSH VIHAR CKT-I	9.12.17	20:17	AT HARSH VIHAR : MAIN-I, DT.
9	10.12.17	13:28	INDRAPRASTHA POWER 220/33KV 100MVA TX-I	10.12.17	13:42	I/C TRIPPED ON 51NX, 86.
10	10.12.17	13:28	INDRAPRASTHA POWER 220/33KV 100MVA TX-II	10.12.17	13:48	I/C TRIPPED ON E/F.
11	11.12.17	19:57	220KV MEHRAULI - BTPS CKT. - II	12.12.17	17:27	AT MEHRAULI : DIST PROT, ZONE-I, DIST 13.45HRS. AT BTPS : DIST PROT, ZONE-I, DIST 6.5KM.
12	12.12.17	00:20	220KV MAHARANIBAGH-MASJID MOTH CKT-I	12.12.17	08:50	AT MASJID MOTH : SUPPLY FAIL.
13	12.12.17	00:20	MASJID MOTH 220/33KV 100MVA TR-III	12.12.17	08:50	I/C -III TRIPPED WITHOUT INDICATION.
14	12.12.17	00:20	GAZIPUR 220/66KV 100MVA TX-I	12.12.17	00:40	TR. TRIPPED WITHOUT INDICATION.
15	12.12.17	00:20	GAZIPUR 220/66KV 100MVA TX-II	12.12.17	00:40	TR. TRIPPED WITHOUT INDICATION.
16	12.12.17	07:38	PAPPANKALAN-I 66/11KV, 20MVA TX-II	12.12.17	10:20	TO ATTEND FLASH AT NEUTRAL AT LV SIDE.
17	12.12.17	10:40	RAJGHAT 220/33KV 100MVA TX-I	12.12.17	11:40	TR. TRIPPED ON 186A&B, I/C TRIPPED ON 86.
18	12.12.17	18:49	220KV MEHRAULI - BTPS CKT. - II	13.12.17	16:30	AT MEHRAULI : DIST PROT, ZONE-I, DIST 13.35KM, ACTIVE GROUP-I, 186A&B. AT BTPS : DIST PROT, ZONE-I, DIST 6.44KM.
19	14.12.17	02:06	220KV BAWANA - KANJHAWALA CKT-2	14.12.17	08:49	AT BAWANA : DIST PROT, ZONE-I, DIST 3.67KM.
20	14.12.17	15:18	BAMNAULI 400/220KV 500MVA ICT-II	14.12.17	15:31	ICT TRIPPED ON 186 A&B, GROUP 1&2.
21	15.12.17	13:01	220KV BAMNAULI-PAPPANKALAN-I CKT-II	15.12.17	13:20	AT BAMNAULI : 186A&B, MAIN-2.
22	19.12.17	09:26	NARAINA 220/33KV 100MVA TX-II	19.12.17	09:39	I/C TRIPPED ON E/F.
23	20.12.17	20:15	220KV GAZIPUR-PATPARGANJ CKT	20.12.17	21:05	AT GAZIPUR : TRIPPED ON O/C, DIST PROT
24	20.12.17	21:42	220KV BAMNAULI-PAPPANKALAN-I CKT-I	20.12.17	22:11	AT PAPANALAN-I : SPS, 85RX.
25	20.12.17	21:42	220KV BAMNAULI-PAPPANKALAN-I CKT-I	20.12.17	22:11	AT PAPANALAN-I : SPS, 85RX.
26	20.12.17	21:42	220KV BAMNAULI-PAPPANKALAN-I CKT-I	20.12.17	22:11	AT PAPANALAN-I : SPS, 85RX.
27	20.12.17	21:42	PAPPANKALAN-I 220/66KV 100MVA TX-IV	20.12.17	22:16	I/C -IV TRIPPED ON O/C, E/F, 86.
28	20.12.17	21:42	PAPPANKALAN-I 220/66KV 160MVA TX-5	20.12.17	22:16	I/C TRIPPED ON 86.
29	26.12.17	12:00	INDRAPRASTHA POWER 220/33KV 100MVA TX-III	26.12.17	12:20	AT I.P. : 86, O/C, I/C TRIPPED WITHOUT INDICATION.
30	30.12.17	10:00	GAZIPUR 220/66KV 160MVA TX-I	30.12.17	10:40	TRIPPED WITHOUT INDICATION.

S. N.	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME (HRS)		DATE	TIME (HRS)	
31	30.12.17	10:00	GAZIPUR 220/66KV 160MVA TX-I	30.12.17	10:40	TRIPPED WITHOUT INDICATION.
32	31.12.17	02:49	220KV BAWANA - KANJHAWALA CKT-2	31.12.17	18:15	AT BAWANA : DIST PROT, ZONE-I, DIST 3.75KM. AT KHANJAWALA : WITHOUT INDICATION.
33	31.12.17	02:49	220KV BAWANA - KANJHAWALA CKT - 1	31.12.17	18:15	AT KHANJAWALA : DIST PROT, ZONE-I, DIST 4.26KM. AT BAWANA : SUPPLY FAIL.
34	31.12.17	05:20	OKHLA 66/11KV, 20MVA TX-I	31.12.17	06:50	TRIPPED ON 86, O/C.
35	31.12.17	09:30	220KV BAMNAULI-PAPPANKALAN-II CKT-II	31.12.17	09:57	AT PAPANALAN-II : TRIPPED ON AUTO RECLOSE LOCKOUT, CVT AVAILABLE.
36	31.12.17	22:55	220KV DSIIDC BAWANA-NARELA CKT-II	1.1.18	19:16	AT NARELA : DIST PROT, ZONE-I, 186 AT DSIIDC BAWANA : DISC PUNCHED

19.10 DETAILS OF 400/220KV BREAKDOWN/TRIPPINGS OCCURRED IN DTL SYSTEM DURING THE MONTH JANUARY 2018

S. N.	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME (HRS)		DATE	TIME (HRS)	
1	1.1.18	00:18	SUBZI MANDI 220/33KV 100MVA TX-I	1.1.18	17:45	186
2	1.1.18	02:25	220KV MEHRAULI - VASANT KUNJ CKT.- II	1.1.18	19:58	AT MEHRAULI : DIST PROT, ZONE-I, ACTIVE GROUP-I.
3	1.1.18	02:49	220KV NARELA - MANDOLA CKT-I	1.1.18	18:34	AT NARELA : DIST PROT, DIST 5.28KM, 186.
4	1.1.18	02:49	220KV NARELA - MANDOLA CKT-II	1.1.18	03:15	AT NARELA : DIFFERENTIAL, 86A, 86C.
5	1.1.18	05:08	220KV BAWANA-DSIIDC BAWANA CKT-I	1.1.18	10:02	AT DISDC BAWANA : DIST PROT, ZONE-I, DIST 1.43KM., 86, RYB PHASE AT BAWANA : DIFFERENTIAL, DIST PROT, DIST 4.88KM.
6	1.1.18	05:25	220KV PRAGATI - SARITA VIHAR CKT - I	1.1.18	12:02	AT PRAGATI : DIST PROT, ZONE-I, DIST 8.742KM, E/F. AT SARITA VIHAR : DIST PROT, ZONE-I, DIST 4.451KM.
7	1.1.18	05:44	220KV BAWANA-DSIIDC BAWANA CKT-II	1.1.18	07:07	AT DSIIDC BAWANA : DIST PROT, ZONE-I, DIST 1.176KM AT BAWANA : DIST PROT.
8	1.1.18	05:59	220KV NARELA - MANDOLA CKT-II	1.1.18	06:42	AT MANDOLA : CKT. TRIPPED.
9	1.1.18	06:52	WAZIRABAD 220/66KV 100MVA TX-III	1.1.18	09:54	E/F.
10	1.1.18	06:53	220KV WAZIRABAD - MANDOLA CKT-IV	1.1.18	15:15	AT WAZIRABAD : DIST PROT, DIST 0.576KM.
11	1.1.18	07:17	DSIIDC BAWANA 220/66KV 160MVA TX-I	1.1.18	17:19	BUS-I TRIPPED ON BUS BAR PROT OPERATED, ZONE-I, Y PHASE, A&C PHASE.
12	1.1.18	07:20	DSIIDC BAWANA 220/66KV 100MVA TX-II	1.1.18	12:48	BUS-II TRIPPED ON BUS BAR PROT, OPERATED, ZONE-I, Y PHASE, A&C PHASE.
13	1.1.18	07:20	DSIIDC BAWANA 220/66KV 100MVA TX-III	1.1.18	12:48	BUS-II TRIPPED ON BUS BAR PROT, OPERATED, ZONE-I, Y PHASE, A&C PHASE.

S. N.	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME (HRS)		DATE	TIME (HRS)	
14	1.1.18	07:45	220KV NARELA - MANDOLA CKT-II	1.1.18	08:58	AT NARELA : SUPPLY FAILED.
15	1.1.18	13:25	GAZIPUR 66/11KV, 20MVA TX-II	1.1.18	16:52	TRIPPED ON 86, E/F.
16	2.1.18	02:53	220KV NARELA - MANDOLA CKT-II	2.1.18	08:32	AT NARELA : SUPPLY FAIL.
17	2.1.18	03:25	220KV GOPALPUR-MANDOLACKT-II	2.1.18	04:36	AT GOPALPUR : DIST PROT, ZONE-2&3, DIST 19.09KM, 86.
18	2.1.18	03:58	220 KV GOPALPUR-WAZIRABAD CKT-2	2.1.18	17:50	AT WAZIRABAD : DIST PROT, ZONE-I, DIST 389MTS.
19	2.1.18	03:58	WAZIRABAD 220/66KV 100MVA TX-III	2.1.18	10:23	TR. TRIPPED ON E/F, I/C TRIPPED ON 86.
20	2.1.18	03:59	SUBZI MANDI 220/33KV 100MVA TX-II	2.1.18	16:36	E/F, 186.
21	2.1.18	03:59	220KV GOPALPUR-MANDOLACKT-II	2.1.18	04:45	AT GOPALPUR : CKT. TRIPPED.
22	2.1.18	04:09	220 KV GOPALPUR-WAZIRABAD CKT - 1	2.1.18	04:17	AT GOPALPUR : CVT AVAILABLE.
23	2.1.18	04:12	220KV WAZIRABAD - MANDOLA CKT-I	2.1.18	15:22	AT WAZIRABAD : DIST PROT, ZONE-I, DIST 5.137KM.
24	2.1.18	04:48	220KV GOPALPUR-MANDOLACKT-I	2.1.18	07:44	AT GOPALPUR : DIST PROT, ZONE-I,I & III, DIST 15.43KM.
25	2.1.18	06:08	220KV WAZIRABAD - MANDOLA CKT-II	2.1.18	17:32	AT WAZIRABAD : DIST PROT ,ZONE-I, DIST 8.068KM.
26	2.1.18	06:42	220KV WAZIRABAD - MANDOLA CKT-IV	2.1.18	15:22	AT WAZIRABAD : DIST PROT, ZONE-I.
27	3.1.18	09:40	220KV BAWANA-DSIIDC BAWANA CKT-II	3.1.18	09:54	AT DSIDC BAWANA : TRIPPED WITHOUT INDICATION.
28	3.1.18	09:40	220KV BAWANA-DSIIDC BAWANA CKT-I	3.1.18	09:54	AT DSIDC BAWANA : TRIPPED WITHOUT INDICATION.
29	3.1.18	15:51	220KV DIAL-MEHRAULI CKT-II	3.1.18	16:19	AT DIAL : DIST PROT, RYB PHSE TRIP, GEN TRIP. AT MEHRAULI : GEN TRIP,
30	4.1.18	03:35	220KV WAZIRABAD - MANDOLA CKT-II	4.1.18	19:06	AT WAZIRABAD : DIST PROT ,DIST 15.13KM.
31	4.1.18	03:45	220KV BAWANA - KANJHAWALA CKT-2	4.1.18	11:05	AT BAWANA :DIST PROT, ZONE-I, DIST 3.83KM.
32	4.1.18	05:16	220KV WAZIRABAD - MANDOLA CKT-IV	4.1.18	15:18	AT WAZIRABAD : B PHASE, DIFFERENTIAL TRIP, DIST PROT, DIST 5.437KM.
33	4.1.18	05:35	220KV MEHRAULI - BTPS CKT. - II	4.1.18	17:15	DIST PROT, ZONE-I, DIST 2.003KM. AT BTPS : DIST PROT, ZONE-II, DIST 17KM, E/F.
34	5.1.18	05:22	220KV NARELA - MANDOLA CKT-I	5.1.18	10:41	AT NARELA : DIST PROT, DIST 19.24KM.
35	5.1.18	05:22	220KV NARELA - MANDOLA CKT-II	5.1.18	14:46	AT NARELA : DIFFERENTIAL, R PHASE, AT MANDOLA : DIST PROT, DIST 19.26KM.
36	5.1.18	16:45	PAPPANKALAN-I 66/11KV, 20MVA TX-III	5.1.18	22:37	E/F, 86.
37	5.1.18	18:10	SARITA VIHAR 220/66KV 100MVA TX-I	5.1.18	18:40	86
38	6.1.18	08:27	220KV DSIIDC BAWANA-NARELA CKT-II	6.1.18	08:32	AT DSIDC NARELA : CKT. TRIPPED ON E/F.
39	6.1.18	08:28	220KV PEERAGARHI-WAZIRPUR CKT-I	6.1.18	09:20	AT PEERAGARHI : 86.

S. N.	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME (HRS)		DATE	TIME (HRS)	
40	6.1.18	08:28	220KV PEERAGARHI-WAZIRPUR CKT-II	6.1.18	09:20	AT PEERAGARHI : 86.
41	7.1.18	03:22	BAWANA 400/220KV 315MVA ICT-V	7.1.18	04:16	220KV I/C TRIPPED ON 86A&B.
42	7.1.18	14:04	220KV ROHINI-SHALIMARBAGH CKT-I	7.1.18	15:13	AT ROHINI-I : DIFF TRIP, 86.
43	9.1.18	10:37	220KV OKHLA - BTPS CKT. - II	9.1.18	10:44	AT OKHLA : BUS BAR PROT.
44	10.1.18	06:35	220KV BAWANA-SHALIMARBAGH CKT-II	10.1.18	16:46	AT BAWANA : AUTO RECLOSE LOCK OUT.
45	10.1.18	06:35	220KV BAWANA-SHALIMARBAGH CKT-I	10.1.18	16:46	AT BAWANA : DIRECTIONAL O/C, MASTER TRIP RELAY OPERATED.
46	10.1.18	12:48	220 KV PATPARGANJ - I.P. CKT-I	10.1.18	12:52	AT I.P.STN. : TRIPPED ON 186, CVT AVAILABLE.
47	10.1.18	15:15	GEETA COLONY 220/33KV 100MVA TX-I	11.1.18	17:50	TRIPPED ON 86.
48	11.1.18	12:20	SARITA VIHAR 220/66KV 100MVA TX-II	11.1.18	17:55	86
49	14.1.18	09:20	INDRAPRASTHA POWER 33KV IG STADIUM CKT-II (BAY-33)	15.1.18	17:12	E/F.
50	15.1.18	18:45	INDRAPRASTHA POWER 220/33KV 100MVA TX-I	15.1.18	20:00	86, E/F.
51	15.1.18	18:45	220 KV PATPARGANJ - I.P. CKT-I	15.1.18	20:00	AT I.P. : 186, ABC PHASE.
52	15.1.18	18:45	220KV PRAGATI - I.P.CKT - I	15.1.18	20:00	AT PRAGATI : 86, DIST PROT, ZONE-I, DIST 1.098KM. AT I.P. : CKT. DID NOT TRIP.
53	16.1.18	12:05	NARAINA 220/33KV 100MVA TX-III	16.1.18	13:31	I/C TRIPPED ON 86.
54	17.1.18	05:58	220KV WAZIRABAD - MANDOLA CKT-III	17.1.18	08:05	AT WAZIRABAD : DIST PROT, DIST. 22.672KM, ZONE-III.
55	17.1.18	16:42	DIAL 220/66KV 160MVA TX-II	17.1.18	16:45	WITHOUT INDICATION.
56	18.1.18	11:06	NARAINA 220/33KV 100MVA TX-II	18.1.18	11:35	E/F.
57	23.1.18	15:01	220KV DIAL-MEHRAULI CKT-I	23.1.18	15:35	AT DIAL : TRIPPED ON LINE DIFFERENTIAL, MAIN I, RYB PHASE.
58	24.1.18	09:58	NARAINA 220/33KV 100MVA TX-III	24.1.18	10:49	I/C TRIPPED ON 95 ABC I&II, LOW GAS PRESSURE.
59	25.1.18	02:20	220KV MUNDKA-KANJHAWALA CKT	25.1.18	22:38	AT KHANJAWALA : CKT. TRIPPED WITHOUT INDICATION.
60	26.1.18	08:08	220KV BAWANA-DSIIDC BAWANA CKT-I	26.1.18	13:10	AT DSIIDC BAWANA : DIST PROT, ZONE-I, DIST 788.4MTS. AT BAWANA : E/F.
61	26.1.18	08:17	220KV WAZIRABAD - KASHMERE GATE CKT-II	26.1.18	10:18	AT WAZIRABAD : DIST PROT, ZONE-I, DIST 3.597KM. AT KASHMIRI GATE : CKT. DID NOT TRIPPED.
62	26.1.18	13:20	OKHLA 220/33KV 100MVA TX-IV	26.1.18	13:20	TR. TRIPPED ON 86.
63	26.1.18	13:20	OKHLA 220/33KV 100MVA TX-III	26.1.18	18:24	TR. TRIPPED ON 86.
64	26.1.18	13:20	OKHLA 220/33KV 100MVA TX-III	26.1.18	13:52	TR. TRIPPED ON 86.

S. N.	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME (HRS)		DATE	TIME (HRS)	
65	26.1.18	14:36	220KV MAHARANI BAGH - SARITA VIHAR CKT	26.1.18	17:10	AT SARITA VIHAR : DIST PROT, ZONE-I, DIST 6.824KM. AT MAHARANI BAGH : DIST PROT, ZONE-I, DIST 3.1KM.
66	27.1.18	04:02	220KV MAHARANI BAGH-TRAUMA CENTER CKT-I	27.1.18	12:19	AT TRAUMA CENTER : 86.
67	27.1.18	08:10	220KV MAHARANIBAGH-MASJID MOTH CKT-II	27.1.18	10:28	AT MAHARANI BAGH : 86.
68	28.1.18	01:42	220KV WAZIRABAD - KASHMERE GATE CKT-I	28.1.18	08:40	AT KASHMIRI GATE : TRIPPED ON 186.
69	28.1.18	01:42	220KV BAWANA-DSIIDC BAWANA CKT-I	28.1.18	15:45	AT BAWANA : DIST PRO, ZONE-I, DIST 5.293KM.
70	28.1.18	05:48	220KVBAWANA-ROHINI-2 CKT-II	28.1.18	10:51	AT ROHINI-II : DIST PROT, ZONE-I. AT BAWANA : DIST PROT, ZONE-I, DIST 149.6MTS, 86, E/F.
71	29.1.18	06:26	400KV MANDOLA-BAWANA CKT-I	29.1.18	07:34	AT BAWANA : DIST PROT, ZONE-I, DIST 194.5MTS.
72	29.1.18	07:46	220KVBAWANA-ROHINI-2 CKT-II	29.1.18	09:50	AT BAWANA : 186, DIST PROT ,ZONE-I, DIST 173.4MTS.
73	29.1.18	08:07	400KV MANDOLA-BAWANA CKT-I	29.1.18	16:26	AT BAWANA : DIST PROT, ZONE-I, DIST 157.4MTS.
74	30.1.18	12:02	220KV OKHLA - BTPS CKT.- I	30.1.18	12:10	AT OKHLA : TRIPPED WITHOUT INDICATION.
75	30.1.18	14:50	PATPARGANJ 220/33KV 100MVA TX-IV	30.1.18	14:55	I/C TRIPPED ON E/F.
76	31.1.18	14:42	220KV MAHARANIBAGH-MASJID MOTH CKT-I	31.1.18	17:35	AT MASJID MOTH : DIST PROT, DIST 2.3KM.
77	30.1.18	14:50	PATPARGANJ 220/33KV 100MVA TX-III	30.1.18	19:38	I/C TRIPPED ON E/F.
78	31.12.17	22:55	220KV DSIIDC BAWANA-NARELA CKT-II	1.1.18	19:16	AT NARELA : DIST PROT, ZONE-I, 186 AT DSIDC BAWANA : DISC PUNCHED

19.11 DETAILS OF 400/220KV BREAKDOWN/TRIPPINGS OCCURRED IN DTL SYSTEM DURING THE MONTH FEBRUARY 2018

S. N.	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME (HRS)		DATE	TIME (HRS)	
1	1.2.18	12:22	220KV PRAGATI - SARITA VIHAR CKT - I	1.2.18	13:33	AT PRAGATI : DIST PROT, ZONE-II, DIST 12.92KM. AT SARITA VIHAR : DIST PROT, DIST 1.856KM.
2	3.2.18	06:52	220KV GOPALPUR-MANDOLACKT-I	3.2.18	07:24	AT GOPALPUR : 86.
3	3.2.18	12:30	220KV GOPALPUR-MANDOLACKT-I	3.2.18	14:14	AT GOPALPUR : DIST PROT, DIST 4.053KM. AT MANDOLA : DIST PROT, DIST 19.81KM.
4	3.2.18	15:15	NARAINA 220/33KV 100MVA TX-III	3.2.18	15:38	I/C TRIPPED WITHOUT INDICATION
5	4.2.18	08:25	220KV GEETA COLONY- PATPARGANJ CKT -II	4.2.18	08:32	AT PATPARGANJ : 186, 86A&B. AT GEETA COLONY : NO TRIPPING
6	4.2.18	08:25	220KV WAZIRABAD - MANDOLA CKT-III	4.2.18	09:35	AT WAZIRABAD : SUPPLY FAIL. AT MANDOLA : TRIPPED ON DIST PROT, ZONE-II, DIST 15KM.

S. N.	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME (HRS)		DATE	TIME (HRS)	
7	4.2.18	08:25	220KV GEETA COLONY- PATPARGANJ CKT-I	4.2.18	08:39	AT PATPARGANJ : 186, 86A&B, DIST PROT, ZONE-III, DIST 9.354KM. AT GEETA COLONY : NO TRIPPING.
8	4.2.18	08:25	220KV WAZIRABAD - MANDOLA CKT-I	4.2.18	09:35	AT WAZIRABAD : SUPPLY FAIL. AT MANDOLA : TRIPPED ON DIST PROT, ZONE-II, DIST 15KM.
9	4.2.18	14:24	220KV GOPALPUR-SUBZI MANDI CKT-II	4.2.18	15:29	AT GOPALPUR : DIST PROT, ZONE-I, DIST 6.208, 86, ABC PHASE.
10	7.2.18	07:32	OKHLA 220/66KV 100MVA TX-II	7.2.18	16:50	TRIPPED ON DIFFERENTIAL.
11	7.2.18	12:30	GOPALPUR 220/33KV 100MVA TX-I	7.2.18	13:55	TRIPPED ON 86.
12	8.2.18	15:50	GAZIPUR 220/66KV 160MVA TX-I	8.2.18	15:57	AT GAZIPUR : BUS BAR PROT. OPERATED.
13	8.2.18	15:50	GAZIPUR 220/66KV 100MVA TX-I	8.2.18	15:57	AT GAZIPUR : BUS BAR PROT. OPERATED.
14	8.2.18	15:50	GAZIPUR 220/66KV 100MVA TX-II	8.2.18	15:57	AT GAZIPUR : BUS BAR PROT. OPERATED.
15	8.2.18	15:50	220KV GAZIPUR - MAHARANIBAGH CKT. -II	8.2.18	15:57	AT GAZIPUR : BUS BAR PROT. OPERATED.
16	9.2.18	18:29	220KV GAZIPUR - MAHARANIBAGH CKT. -II	9.2.18	19:24	AT GAZIPUR : WITHOUT INDICATION AT MAHARANI BAGH : 86.
17	11.2.18	19:00	LODHI RD 220/33KV 100MVA TX-I	12.2.18	19:22	86
18	12.2.18	01:34	400KV BAWANA-MUNDKA CKT-I	12.2.18	08:19	AT BAWANA : TRIPPED ON OVER VOLTAGE.
19	12.2.18	11:20	220KV BAWANA - KANJHAWALA CKT - 1	12.2.18	18:09	AT KHANJAWALA : Y PHASE JUMPER BROKEN ON TOWER NO. 6 AT BAWANA :TRIPPED ON DIFFERENTIAL.
20	12.2.18	11:20	220KV BAWANA - KANJHAWALA CKT-2	12.2.18	18:09	AT KHANJAWALA : Y PHASE JUMPER BROKEN ON TOWER NO. 6 AT BAWANA :TRIPPED ON DIFFERENTIAL.
21	12.2.18	14:20	220KV GAZIPUR - MAHARANIBAGH CKT. -I	12.2.18	14:45	AT GAZIPUR : TRIPPED WITHOUT INDICATION.
22	12.2.18	14:20	GAZIPUR 220/66KV 100MVA TX-II	12.2.18	14:45	86
23	12.2.18	14:20	GAZIPUR 220/66KV 100MVA TX-I	12.2.18	14:45	TRIPPED WITHOUT INDICATION.
24	12.2.18	14:20	GAZIPUR 220/66KV 160MVA TX-I	12.2.18	14:45	TRIPPED WITHOUT INDICATION.
25	12.2.18	14:54	220KV BAWANA-DSIIDC BAWANA CKT-II	12.2.18	19:44	TRIPPED ON 86A&B.
26	12.2.18	14:54	BAWANA 400/220KV 315MVA ICT-VI	12.2.18	19:44	TRIPPED ON 86A&B.
27	13.2.18	12:10	PATPARGANJ 220/33KV 100MVA TX-III	13.2.18	12:30	TRIPPED ON 195CB.
28	13.2.18	13:10	GAZIPUR 66/11KV, 20MVA TX-II	13.2.18	13:30	86, RLV.
29	14.2.18	08:49	PRAGATI 220/66KV 160MVA TX-I	14.2.18	15:14	R PHASE JUMPER OF 220KV BUS COUPLER CONNECTING 220KV BUS-II SNAPPED AT PRAGATI.
30	14.2.18	08:49	PRAGATI 220/66KV 160MVA TX-II	14.2.18	08:58	R PHASE JUMPER OF 220KV BUS COUPLER CONNECTING 220KV BUS-II SNAPPED AT PRAGATI.
31	14.2.18	08:49	220KV PRAGATI - PARK STREET CKT-II	14.2.18	09:17	R PHASE JUMPER OF 220KV BUS COUPLER CONNECTING 220KV BUS-II SNAPPED AT PRAGATI.

S. N.	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME (HRS)		DATE	TIME (HRS)	
32	14.2.18	08:49	220KV MAHARANI BAGH - PRAGATI CKT	14.2.18	09:04	R PHASE JUMPER OF 220KV BUS COUPLER CONNECTING 220KV BUS-II SNAPPED AT PRAGATI.
33	14.2.18	08:49	220KV PRAGATI - SARITA VIHAR CKT - I	14.2.18	09:03	R PHASE JUMPER OF 220KV BUS COUPLER CONNECTING 220KV BUS-II SNAPPED AT PRAGATI.
34	14.2.18	08:49	220KV PRAGATI - PARK STREET CKT-I	14.2.18	09:08	R PHASE JUMPER OF 220KV BUS COUPLER CONNECTING 220KV BUS-II SNAPPED AT PRAGATI.
35	14.2.18	08:49	220KV PRAGATI - I.P.CKT - II	14.2.18	08:54	R PHASE JUMPER OF 220KV BUS COUPLER CONNECTING 220KV BUS-II SNAPPED AT PRAGATI.
36	14.2.18	08:49	220KV PRAGATI - I.P.CKT - I	14.2.18	08:54	R PHASE JUMPER OF 220KV BUS COUPLER CONNECTING 220KV BUS-II SNAPPED AT PRAGATI.
37	14.2.18	12:47	220KV BAMNAULI-PAPPANKALAN-I CKT-I	14.2.18	17:38	AT PAPANALAN-I : ISOLATOR REPLACEMENT.
38	14.2.18	17:46	220KV MAHARANI BAGH - MASJID MOTH CKT-II	14.2.18	18:28	AT MAHARANI BAGH : 86
39	14.2.18	17:46	220KV MAHARANI BAGH - SARITA VIHAR CKT	14.2.18	17:48	AT MAHARANI BAGH : 86
40	14.2.18	17:46	220KV MAHARANI BAGH - ELECTRIC LANE CKT-II	14.2.18	19:48	AT MAHARANI BAGH : 86
41	14.2.18	17:50	220KV GAZIPUR - MAHARANI BAGH CKT. -I	14.2.18	18:01	AT MAHARANI BAGH : 86
42	14.2.18	09:00	PARKSTREET 220/66KV 100MVA TX-II	14.2.18	11:35	E/F.
43	14.2.18	17:50	GAZIPUR 220/66KV 100MVA TX-I	14.2.18	18:01	86
44	15.2.18	04:35	GAZIPUR 66/11KV, 20MVA TX-II	15.2.18	18:45	86
45	15.2.18	11:55	220KV PRAGATI - I.P.CKT - II	15.2.18	12:08	AT PRAGATI : TRIPPED WITHOUT INDICATION.
46	15.2.18	15:05	220KV NARAINA-RIDGE VALLEY CKT-I	15.2.18	15:46	AT NARAINA : SPS OPERATED, 186. AT RIDGE VALLEY : CKT. DID NOT TRIP.
47	15.2.18	15:05	220 KV TRAUMA CENTER-RIDGE VALLEY CKT-1	15.2.18	15:10	AT TRAUMA CENTER : LINE DIFFERENTIAL. AT RIDGE VALLEY : NO TRIPPING.
48	15.2.18	15:05	220 KV TRAUMA CENTER-RIDGE VALLEY CKT-2	15.2.18	15:10	AT TRAUMA CENTER : 86B, DIST PROT, ZONE-I. AT RIDGE VALLEY : DIFFERENTIAL.
49	16.2.18	06:13	GOPALPUR 220/33KV 100MVA TX-I	16.2.18	07:10	186
50	18.2.18	00:40	PARKSTREET 220/66KV 100MVA TX-II	18.2.18	05:37	E/F.
51	18.2.18	12:07	OKHLA 220/66KV 100MVA TX-II	18.2.18	18:43	TRIPPED ON DIFFERENTIAL RELAY.
52	18.2.18	12:10	220KV GAZIPUR - BTPS CKT	18.2.18	17:33	AT BTPS: DIST PROT, ZONE-I, DIST 16.5KM.
53	18.2.18	20:30	MASJID MOTH 220/33KV 100MVA TX-II	18.2.18	21:32	E/F, O/C, 86

S. N.	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME (HRS)		DATE	TIME (HRS)	
54	19.2.18	11:35	220KV DSIIDC BAWANA-NARELA CKT-II	19.2.18	17:08	AT NARELA : TRIPPED WITHOUT INDICATION.
55	19.2.18	12:52	GOPALPUR 220/33KV 100MVA TX-I	19.2.18	16:46	186, PRV.
56	19.2.18	14:05	220KV WAZIRABAD - KASHMERE GATE CKT-II	19.2.18	17:49	AT WAZIRABAD : DIST PROT, ZONE-II, DIST 4.945KM, R PHASE.
57	20.2.18	18:20	220KV NARELA - MANDOLA CKT-II	20.2.18	18:26	AT NARELA : 86.
58	20.2.18	18:21	220KV NARELA - MANDOLA CKT-I	20.2.18	18:31	AT NARELA : OVERLOAD.
59	21.2.18	12:28	220KV MEHRAULI - BTPS CKT. - II	21.2.18	20:27	AT BTPS : DIST PROT, ZONE-I, DIST 5.5KMS., RY PHASE. AT MEHRAULI :CKT. DID NOT TRIP
60	21.2.18	12:28	220KV MAHARANI BAGH- MASJID MOTH CKT-II	21.2.18	14:10	AT MAHARANI BAGH : Y&B PHASE TRIP, O/V,
61	21.2.18	12:28	220KV OKHLA - BTPS CKT. - II	21.2.18	13:41	AT BTPS : E/F. AT OKHLA : CKT. DID NOT TRIP
62	21.2.18	12:28	220KV MEHRAULI - BTPS CKT. - I	21.2.18	20:03	AT BTPS : RYB PHASE, ZONE-III. AT MEHRAULI : CKT. DID NOT TRIP
63	21.2.18	12:29	220KV PRAGATI - SARITA VIHAR CKT - I	21.2.18	12:59	AT SARITA VIHAR : DIST PROT, ZONE-I, 186A&B. AT PRAGATI : CKT. DID NOT TRIP.
64	21.2.18	12:30	220KV MAHARANI BAGH - SARITA VIHAR CKT	21.2.18	15:52	AT SARITA VIHAR: RYB PHASE TRIP, DIST PROT, ZONE-I, DIST 4.667KMS. AT MAHARANI BAGH: RYB PHASE TRIP.
65	23.2.18	20:46	PARK STREET 220/33KV 100MVA TX-I	24.2.18	00:38	DIFFERENTIAL.
66	24.2.18	04:30	INDRAPRASTHA POWER 220/33KV 100MVA TX-III	24.2.18	14:40	86, 186
67	24.2.18	12:57	220KV MAHARANI BAGH - PRAGATI CKT	24.2.18	15:47	AT PRAGATI : DIST PROT, ZONE-I, ACTIVE GROUP -I, DIST 5.548KM. AT MAHARANI BAGH : DIST PROT, DIST 5.7KM, R PHASE.
68	24.2.18	12:58	OKHLA 220/66KV 100MVA TX-II	24.2.18	15:16	TRIPPED ON DIFFERENTIAL, 86, RYB PHASE.
69	25.2.18	06:32	NARAINA 33KV MAYAPURI CKT-II	26.2.18	14:15	CT BLAST.
70	25.2.18	15:43	220KV WAZIRABAD - KASHMERE GATE CKT-II	25.2.18	21:40	AT WAZIRABAD : DIST PROT, ZONE-I, DIST 4.859KM AT KASHMIRI GATE : CKT .DID NOT TRIP.
71	25.2.18	19:20	220KV PRAGATI - SARITA VIHAR CKT - I	25.2.18	22:05	AT SARITA VIHAR : POLE DISCRIPANCY, CVT AVAILABLE.
72	26.2.18	11:35	220KV MAHARANI BAGH - SARITA VIHAR CKT	26.2.18	11:59	AT SARITA VIHAR : DIST PROT, ZONE-I, DIST 4.979KM AT MAHARANI BAGH : DIST PROT, RY PHASE, DIST 4.8KM.
73	28.2.18	06:50	INDRAPRASTHA POWER 220/33KV 100MVA TX-III	28.2.18	07:26	I/C TRIPPED ON O/C
74	28.2.18	06:50	INDRAPRASTHA POWER 220/33KV 100MVA TX-II	28.2.18	07:25	I/C TRIPPED ON 86
75	28.2.18	06:50	INDRAPRASTHA POWER 220/33KV 100MVA TX-I	28.2.18	07:23	I/C TRIPPED ON E/F
76	28.2.18	06:50	INDRAPRASTHA POWER 33KV KILOKRI CKT (BAY-1)	28.2.18	13:20	R PHASE COMMON JUMPER INSULATOR DISC BROKEN.
77	28.2.18	14:10	220KV PRAGATI - SARITA VIHAR CKT - I	28.2.18	17:23	AT SARITA VIHAR : POLE DISCREPANCY.

19.12 DETAILS OF 400/220KV BREAKDOWN/TRIPPINGS OCCURRED IN DTL SYSTEM DURING THE MONTH MARCH 2018

S. N.	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME (HRS)		DATE	TIME (HRS)	
1	1.3.18	10:58	OKHLA 220/66KV 100MVA TX-II	1.3.18	13:05	TRIPPED ON DIFFERENTIAL, RYB PHASE, 186.
2	1.3.18	22:25	220KV PRAGATI - SARITA VIHAR CKT - I	2.3.18	10:55	AT SARITA VIHAR : POLE DISCREPANCY.
3	2.3.18	12:05	OKHLA 220/66KV 100MVA TX-II	2.3.18	14:55	DIFFERENTIAL, RYB PHASE, 86.
4	2.3.18	13:53	220KV ROHINI-SHALIMARBAGH CKT-I	2.3.18	15:07	AT ROHINI : DIST PROT, ZONE-I, DIST 4.426KM, ABC PHASE.
5	3.3.18	13:29	220KV ROHINI-SHALIMARBAGH CKT-I	3.3.18	18:38	AT ROHINI : TRIPPED ON DIFFERENTIAL, 86A
6	5.3.18	10:05	OKHLA 220/33KV 100MVA TX-IV	5.3.18	12:45	TR. TRIPPED ON MASTER RELAY 86.
7	5.3.18	10:05	OKHLA 220/33KV 100MVA TX-III	5.3.18	12:45	TRIPPED ON TROUBLE ALARM.
8	8.3.18	11:57	220 KV GOPALPUR-WAZIRABAD CKT-2	8.3.18	12:25	AT WAZIRABAD : DIST PROT, ZONE-I, DIST 2.066KM.
9	10.3.18	10:45	220KV DSIIDC BAWANA-NARELA CKT-II	10.3.18	10:52	AT NARELA : TRIPPED ON 86, 186, AB PHASE.
10	13.3.18	12:50	220KV MEHRAULI - BTPS CKT. - II	13.3.18	15:17	AT MEHRAULI : DIST PROT, ZONE-I, DIST 13.92KM. AT BTPS : DIST PROT, ZONE-I, DIST 3.3KM.
11	13.3.18	22:55	220KV MAHARANI BAGH - SARITA VIHAR CKT	14.3.18	11:15	AT SRITA VIHAR : MADE OFF DUE TO HEAVY SPARKING NEAR TOWER NO 38.
12	16.3.18	21:00	PATPARGANJ 33/11KV, 20MVA TX	17.3.18	15:50	TRIPPED ON 86.
13	17.3.18	12:12	PEERA GARHI 33KV A-4 PASCHIM VIHAR CKT-I	17.3.18	17:56	TRIPPED ON 86B
14	17.3.18	12:12	PEERA GARHI 220/33KV 100MVA TX-II	17.3.18	15:40	TRIPPED ON 86A&B.
15	18.3.18	00:00	PREETVIHAR 220/33KV 100MVA TX-I			PUT OFF DUE TO ACETYLENE GAS FORMATION.
16	20.3.18	13:14	220KV GOPALPUR-MANDOLACKT-I	20.3.18	19:54	AT GOPALPUR : DIST PROT, DIST 8.32KM, R PHASE, 86. AT MANDOLA : R PHASE.
17	21.3.18	10:35	NARELA 66/11KV, 20MVA TX-II	21.3.18	18:02	86 RELAY BURNT.
18	21.3.18	13:45	LODHI RD 220/33KV 100MVA TR. -III	21.3.18	13:55	I/C-III TRIPPED.
19	22.3.18	12:54	PATPARGANJ 220/33KV 100MVA TX-I	22.3.18	15:35	86, PRV.
20	22.3.18	22:23	ROHINI 220/66KV 100MVA TX-I	22.3.18	22:59	86
21	23.3.18	08:15	WAZIRABAD 66KV SONIA VIHAR CKT-I	23.3.18	12:30	PREVENTIVE MTC.
22	24.3.18	14:35	220KV BAMNAULI - DIAL CKT-II	24.3.18	20:13	AT BAMNAULI : DIST PROT, DIST 9.97KM, 186A&B. AT DIAL : DIST PROT, ZONE-I, B PHASE, DIFFERENTIAL.
23	26.3.18	14:25	KANJHAWALA 66/11KV, 20MVA TX-II	26.3.18	15:00	E/F.

S. N.	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME (HRS)		DATE	TIME (HRS)	
24	27.3.18	11:20	220KV BAMNAULI-PAPPANKALAN-I CKT-II	27.3.18	16:16	AT PAPAN KALAN-I : DIST PROT, R PHASE, 186A&B AT BAMNAULI : DIST PROT, ZONE-I, DIST 6.427KM, 186A&B.
25	27.3.18	12:00	220KV PAPPANKALAN-I-NARAINA CKT-I	27.3.18	13:35	AT NARINA : 86ABC. AT PAPAN KALAN-I : CKT. DID NOT TRIP
26	27.3.18	15:30	220KV MEHRAULI - BTPS CKT. - I	27.3.18	17:18	AT MEHRAULI : DIST PROT, ZONE-I, 186 AT BTPS : DIST PROT, ZONE-I, DIST 15.3KM, E/F.
27	28.3.18	11:43	PRAGATI 220/66KV 160MVA TX-II	28.3.18	17:10	E/F.
28	28.3.18	12:47	220 KV GOPALPUR-WAZIRABAD CKT-2	28.3.18	16:44	AT WAZIRABAD : DIST PROT,ZONE-I, DIST 5.819KM.
29	29.3.18	03:20	PAPPANKALAN-I 66/11KV, 20MVA TX-III	29.3.18	11:30	E/F, 86.
30	29.3.18	06:15	SARITA VIHAR 220/66KV 100MVA TX-I	29.3.18	13:05	TRIPPED WITHOUT INDICATION.
31	31.1.18	14:42	220KV MAHARANIBAGH-MASJID MOTH CKT-I	6.4.18	19:31	AT MASJID MOTH : DIST PROT, DIST 2.3KM.

20 Details of major Grid Disturbances occurred in 2017-18.

1 Report on tripping occurred in Delhi system on 15.04.2017 at 220kV Narela S/Stn.

The following tripping occurred in Delhi system on 15.04.2017 at 17:23 hrs.

S. No	Name of the elements tripped	Relay indications	Time of tripping in Hrs.	Time of Restoration in Hrs.	Remarks
1	220kV Narela –Rohtak Road ckt. –I	At Narela : 220kV Bus bar prot. Operated	17:23	18.39	220kV Y Phase CT blast at BBMB Narela Yard
2	220kV Narela –Rohtak Road ckt. –II	At Narela : 220kV Bus bar prot. Operated	17:23	18.39	
3	220kV DSIDC Bawana - Narela ckt. –II	At Narela : 220kV Bus bar prot. Operated	17:23	17.49	
4	220kV Panipat -Narela ckt. –III	At Narela : 220kV Bus bar prot. Operated	17:23	01.37 (16.04.17)	
5	220/66kV 100MAV Tr.-1 at Narela	At Narela : 220kV Bus bar prot. Operated	17:23	17.52	
6	220/66kV 100MAV Tr.-2 at Narela	At Narela : 220kV Bus bar prot. Operated	17:23	17.52	
7	220/66kV 100MAV Tr.-3 at Narela	At Narela : 220kV Bus bar prot. Operated	17:23	17.52	

DETAILS OF LOAD SHEDDING

TPDDL			220kV NARELA
17:23	17:50	86	220 KV NARELA,A-7 NARELA,AZADPUR,BHALSWA GRID, G.T.K. ROAD,SGTN NAGAR
17:23	17:30	12	BADLI
17:23	17:34	17	DSIDC NARELA-1
			220kV BBMB ROHTAK ROAD
17:23	17:33	6	KIRTI NAGAR
17:23	17:40	4	RAMA ROAD
17:23	18:00	7	RAMPURA
17:23	18:15	14	RAMPURA
17:23	18:35	12	ROHTAK ROAD,SUDARSHAN PARK
			BRPL
			220kV BBMB ROHTAK ROAD
17:23	18:54	8	SB MILL
17:23	17:39	15	VISHAL
17:23	18:54	1	DLF

2 Report on tripping occurred in Delhi system on 10.05.2017 at 400kV Mundka S/Stn..

The following tripping occurred in Delhi system on 10.05.2017 at 17:59 hrs.

S. No	Name of the elements tripped	Relay indications	Time of tripping in Hrs.	Time of Restoration in Hrs.	Remarks
1	400kV Mundka-Jajjhar-I	At Mundka : Ckt intertrip channel I &II sent & received, zone-I ,distance protection B Ph, Protection trip ,Ia=266A,Ib=279A and Ic=412A.	17:59	18:53	400kV Mundka s/tn remains connected with Grid through 400kV Jhatikara and Bawana ckts.
2	400kV Mundka-Jajjhar-II	At Mundka: ckt intertrip channel I &II sent & recieved ,Zone-I ,Zone-II,distance protection ,3ph, dist-53.65km, Ia=74A,Ib=19A,Ic=3743A.	17:59	18:34	

Details of Loss of Generation :

Nil

Details of load affected:

Nil

3 Report on tripping occurred in Delhi system on 14.05.2017 at 400kV Mundka S/Stn.

The following tripping occurred in Delhi system on 14.05.2017 at 09.03 hrs.

S. No	Name of the elements tripped	Relay indications	Time of tripping in Hrs.	Time of Restoration in Hrs.	Remarks
1	400kV Mundka-Bawana -I	At Mundka : Ckt. tripped on Dist prot, zone-I, Auto reclose lockout, 186LO At Bawana ckt. tripped on Main-1, BCN, Zone-1, Main-2, RYB Phase, Zone-I	09.03	18.00hrs on 14.08.2017	Smoke and fire observed under tower no. 116.
2	400kV Mundka-Bawana-II	Ckt made off manually	09.50	18.00hrs on 14.08.2017	Ckt made off with the consent of NRLDC for safety reasons.

O&M Staff reported that huge plastic scrap lying under tower no. 116 which caught fire and heavy smoke observed at the site. Later it has been informed that due to intense fire tower no. 116 got damaged.

Details of Loss of Generation :

Nil

Details of load affected:

Nil

4 Report on tripping occurred in Delhi system on 21.05.17

The following 400kV and 220kV Elements tripped in Delhi system on 21.05.17 at 16.43hrs. onwards due to Thunderstorm:-

S. No	Name of the elements tripped	Relay indications	Time of tripping in Hrs.	Time of Restoration in Hrs.
1	400kV Bawana – Abdullapur Ckt.	At Bawana : Dist prot, Z-I, Dist 108.3mts. Group A, O/V, A phase, 186A&B. At Abdullapur :Intertripping	16.43	19.16
2	400kV Bawana – Deepalpur Ckt.	At Bawana : Ckt. did not trip. Supply fail.	16.43	17.59
3	400kV Bawana – Mandola Ckt.-I	At Bawana : Ckt. did not trip, Supply fail.	16.43	18.53
4	400kV Bawana – Mandola Ckt.-II	At Bawana : 30C&30E, Dist prot, zone-I, Dist 990mts. At Mandola: Intertripping	16.43	21.03
5	400/220kV,315MVA ICT -3 at Bawana	ICT Tripped on 186A&B, 86-A1, 86B1, 95A-1,95B1. Differential Trip.	16.43	00.36 (22.05.17)
6	400/220kV 315MVA ICT -1 at Bawana	ICT Tripped on OLTC Buchholz, Y Phase trip.	16.43	20.26
7	400kV CCGT Bawana – Bhiwani Ckt.	At CCGT Bawana: Ckt. did not trip, Supply fail.	16.43	21.30
8	400kV CCGT Bawana – Bahadurgarh Ckt.	At CCGT Bawana: Ckt. did not trip, Supply fail.	16.43	21.40
9	220kV Gopalpur – Mandola ckt-I	At Gopalpur : Dist Prot, Zone-I ,Rph,5.8km .86.	17.22	20.52
10	220kV Geeta Colony – Wazirbad Ckt. –I	At Geeta Colony : Active Gr-I, Dist prot, Zone-I, Dist 393.4mts., E/F. At Wazirbad : R&Y Phase, Dist Prot. Zone-I, Dist 5.581Kms.	17.33	18.31
11	220kV Bus Coupler at Geeta Colony	Tripped on 86, 30A	17.35	18.33
12	220kV Harsh Vihar – Preet Vihar ckt. –II	At Harsh Vihar : 86, Auto Reclose, CB Trouble, R&Y Phase, Gen. Trip. At Preet Vihar : Ckt did not trip	18:04	19:18
13	220kV Patparganj – Preet Vihar ckt. –II	At Patparganj : Dist Prot, Zone-I, Dist 2.7Kms, R&Y Phase, 87L, 86. At Preet Vihar : 86, 86L	17.40	19.58
14	220kV Patparganj – Preet Vihar ckt. –I	At Patparganj : Tripped on 86. At Preet Vihar : Ckt. did not trip.	17.40	18.06
15	220kV Maharani Bagh – Sarita Vihar Ckt.	At Maharani Bagh: Gen. trip R Ph, Dist Prot, Zone-I, Dist 1.3Km At Sarita Vihar : Dist prot, zone –I, Dist 7.141Kms. Auto Reclose, 186ABC.	17.29	19.18
16	220/33kV 100MVA –II at Naraina	Tr. Tripped on 86, Group B, REF, 64RHV, I/C tripped without indication.	18.00	19.00

Generation loss

Sr No	Name of Unit	Generation (in MW)	Tripping Time (Hrs.)	Synchronizing Time (Hrs.)
1	CCGT-Bawana Unit-1	196	16:43	CCGT Bawana given clearance for Availability of Machine for generation at 08.06 Hrs but Machine was not brought on Bars due to less Demand in Delhi.
2	STG	106	16:43	
	Total	302		

DETAILS OF LOAD SHEDDING**TPDDL**

DURATION (hrs)		LOAD IN MW	AREAS / GRID AFFECTED	REMARKS
FROM	TO			
16:46	17:06	33	<u>220kV SHALIMARBAGH</u> RANI BAGH, SGTN NAGAR, SMB - KHOSLA, SMB FACILITY CENTRE, 11KV	DUE TO MULTIPLE TRIPPINGS OF 400KV ELEMENTS AT 400kV BAWANA
16:46	17:43	34	<u>220kV ROHINI</u> 11kV LOAD,ROHINI - 6,ROHINI DC 1,ROHINI-4	
16:46	17:23	75	P. P. - 2,PITAMPURA-1,PRASHANT VIHAR GRID,ROHINI-1,ROHINI-3,ROHINI-5	
16:46	16:55	18	AIR KHAM PUR,TIGI PUR	
16:46	16:55	27	ROHINI - 22,ROHINI-24	
16:46	16:58	53	<u>220kV DSIDC BAWANA</u> BAWANA-1 GRID,BAWANA-6,BAWANA-7	
16:46	17:13	13	11kV LOAD	
16:46	18:10	3	<u>220kV ROHINI-II SEC.-29</u> RG-28 66KV GRID	
TOTAL IN MW		256		

BYPL

DURATION (hrs)		LOAD IN MW	AREAS / GRID AFFECTED	REMARKS
FROM	TO			
17:44	18:39	14	GH-1	TRIPPING OF 220kV GEETA COLONY - WAZIRABAD CKT.-I AND 220kV BUS COUPLER AT GEETA COLONY THEREBY OVER LOADING OF 220kV GEETA COLONY PATPARGANJ CKT.-II
17:44	18:39	5	GH-2	
17:44	18:39	3	PPG INDUSTRIAL AREA	
17:44	18:47	15	DSIDC JHILMIL	
17:44	18:30	8	SHAKARPUR	
17:44	18:44	15	KANTI NAGAR	
17:44	18:32	24	GEETA COLONY	
17:44	18:20	11	CBD-2	
17:44	18:32	5	VIVEK VIHAR	
TOTAL IN MW		100		

BRPL

DURATION (hrs)		LOAD IN MW	GRID / AREAS AFFECTED	REMARKS
FROM	TO			
16:46	17:26	11	NANGLOI CKT.-II (MANGOLPURI)	DUE TO MULTIPLE TRIPPINGS OF 400KV ELEMENTS AT 400kV BAWANA

5 Report on tripping occurred in Delhi system on 16.07.2017

The following Elements tripped in Delhi system on 16.07.2017 at 20.29hrs.at 220kV Papankalan-I S/Stn. & Total load of Papankalan-I was affected.

S. No	Name of the elements tripped	Relay indications	Time of tripping in Hrs.	Time of Restoration in Hrs.	Remarks
1	220/66kV 100MVA Tx-II	I/C TRIPPED ON O/C, TR. TRIPPED ON O/C.	20:29	20:51	220/66kV 160MVA Tx-III WAS UNDER SHUT DOWN TO ATTEND HOT POINT ON R&Y PHASE LINE ISOLATOR SINCE 18.55HRS. TO 22.10HRS.
2	220/66kV 100MVA Tx-IV	TR. TRIPPED ON O/C.	20:29	20:51	
3	220/66kV 160MVA Tx-V	TR. TRIPPED ON O/C.	20:29	20:51	
4	220/66kV 100MVA Tx-II	TR. TRIPPED ON O/C.	20:53	21:02	
5	220/66kV 100MVA Tx-IV	TR. TRIPPED ON O/C.	20:53	21:02	
6	220/66kV 160MVA Tx-V	TR. TRIPPED ON O/C.	20:53	21.02	

DETAILS OF LOAD SHEDDING

DURATION (hrs)		LOAD IN MW	GRID / AREAS AFFECTED	REMARKS
FROM	TO			
BRPL				
20:29	21:07	43	BODELLA-1	DUE TO TRIPPING OF 100MVA PR.TR.-IV, 160MVA PR.TR.-V AND 66kV I/C-II AT 220kV PAPANKALAN-I
20:29	21:03	78	G-2 PPK,HARI NAGAR	
20:29	21:03	22	SAGARPUR	
20:29	21:07	50	BINDAPUR	
20:29	20:40	20	PASCHIM VIHAR	
20:29	21:03	8	REWARI LINE	
20:29	20:45	23	PANKHA ROAD	
20:29	20:41	8	MAYAPURI	
20:29	20:40	15	SAGARPUR	
TPDDL				
20:29	20:43	6	REWARI LINE	DUE TO TRIPPING OF 100MVA PR.TR.-IV, 160MVA PR.TR.-V AND 66kV I/C-II AT 220kV PAPANKALAN-I

6 Report on tripping occurred in Delhi system on 26.07.2017

The following Elements tripped in Delhi system on 26.07.2017 at 23.50hrs. at 220kV Naraina S/Stn. & Total load of Naraina was affected.

S. No	Name of the elements tripped	Relay indications	Time of tripping in Hrs.	Time of Restoration in Hrs.	Remarks
1	220/33kV 100MVA Tx-I	195ABC, 295ABC, 87TA, 87TC, 86A&B, 30ABC DIFFERENTIAL.	23.50	18.00 27.07.17	Tr. damaged due to fire. 220/33kV 100MVA Tx-III was under shutdown since 17:40hrs of 26.07.2017 to attend air leakage from R phase CB. Tr. could not be charged as breaker is under lock out position.
2	220/33kV 100MVA Tx-II	I/C TRIPPED ON R PHASE O/C.	23.50	04:05 (27.07.17)	
4	220kV BUS COUPLER	295	23.50	Off	

DETAILS OF LOAD SHEDDING

DURATION (hrs)		LOAD IN MW	GRID / AREAS AFFECTED	REMARKS	
FROM	TO				
TPDDL					
23:50	23:52	68	PAYAL,REWARI LINE, INDERPURI, PANDAV NAGAR, SARASWATI GDN.,A-21 NARAINA AND 11kV LOAD	DUE TO FIRE IN 100MVA PR.TR.-I (TR. BURNT) AT 220kV NARAINA	
23:52	23:54	20	A-21 NARAINA, INDER PURI, PAYAL , PANDAV NAGAR, 11kV LOAD		
23:54	24:00	7	220kV NARAINA (11kV LOAD),PANDAV NAGAR		
BYPL					
23:50	24:00	19	DMS		
BRPL					
23:50	24:00	22	MAYA PURI		
MES					
23:50	24:00	32	KHEBAR LANE, KIRBI PLACE,		

7 Preliminary report on tripping occurred in Delhi system on 11.08.2017 at IP Stn.

The following Elements tripped in Delhi system on 11.08.2017 at 11.20hrs. at 220kV I.P.Stn.

S. No	Name of the Elements tripped	Relay indications	Time of tripping in Hrs.	Time of Restoration in Hrs.	Remarks
1	220kV I.P.- Patparganj Ckt. –I	At Patparganj: Dist prot, C phase, Zone-I, Dist 745mts. At I.P.: 86, 186.	11.20	11.55	
2	220kV I.P.- Patparganj Ckt. – II	At Patparganj : O/C At I.P. : Made off manually	11.22	15:17	CB top clamp burnt & B Phase conductor of CB top clamp towards Bus-II side snapped at I.P.Stn.
3	220kV I.P.- Patparganj Ckt. –I	At Patparganj: Dist prot, Zone-I, 186, 186. At I.P.: Manually made off.	12:47	22.43	Fire reported in yard at I.P.Stn. Load of I.P.Stn and RPH S/Stn taken on 220kV I.P.- Pragati ckt. I&II at 13.28hrs. Hot point reported at Isolator of R Phase line isolator of I.P. – Patparganj Ckt. –I
4	220kV Bus coupler at I.P.Stn.	Tripped on E/F	12:47	13:28	Bus coupler tripped during changeover for making split bus arrangement in order to contain load shedding by running RPH with Pragati Ckts. and Transformers with Patparganj ckt. –I.

Details of Loss of Generation: Nil

Details of load affected

- 1 During first incident at 11.22 hrs approximately 230MW load of IP & RPH Stn was affected and it was normalized at 11.55hrs
2. During second incident i.e. at 12.47hrs approximately 200MW load of I.P. & RPH Stn was affected and about 160MW load was normalized at 13.28hrs (Approx. 50MW load affected to control overloading of Maharani Bagh – Pragati ckt.) The closed unit of Pragati (150MW) and G.T. (70MW) generator brought up to limit shedding.

8 Preliminary report on tripping occurred in Delhi system on 04.09.2017 at Bawana Stn.

The following Elements tripped in Delhi system on 04.09.2017 at 10.42hrs. at 400kV Bawana Stn.

S. No	Name of the Elements tripped	Relay indications	Time of tripping in Hrs.	Time of Restoration in Hrs.	Remarks
1	400/220kV 315MVA ICT –I	Tripped on 86, ground operated.	10.42	11.47	
2	220kV Bawana – DSIDC Bawana Ckt. –I	At Bawana : Dist prot, Zone-I, R Phase, Dist 8km.	10.42	13.16	220kV Bawana – DSIDC Bawana Ckt. –II was under planned shutdown,

Details of Loss of Generation: Nil

Details of load affected

During incident i.e. at 10.42 hrs approximately 135MW load of DSIDC Bawana was affected and the load was normalized at 11.50hrs by closing 220kV Narela–DSIDC Bawana Ckt.I&II.

9 Preliminary report on tripping occurred in Delhi system on 10.09.2017

The following Elements tripped in Delhi system on 10.09.2017

S. No	Name of the Elements tripped	Relay indications	Time of tripping in Hrs.	Time of Restoration in Hrs.	Remarks
1	220kV BTPS – Mehrauli Ckt-I	At BTPS : Dist prot, zone-I, Dist 23.KM, B phase. At Mehrauli : Dist prot, zone-II, Dist 18.2.KM, AB&C phase.	12.43	14.27	
2	220kV BTPS – Mehrauli Ckt-II	At BTPS : Dist prot, zone-I, Dist 4.2.KM, R phase. At Mehrauli : Manually made off .	12.45	19.50	At tower number 19, Bottom phase jumper snapped.
3	220kV Bamnauli – Naraina Ckt. –I	At Bamnauli : : Bus bar protection operated. At Naraina : supply failed.	12.46	16.07	Load of Naraina S/Stn changed over to 220kV Maharani Bagh – Trauma Center – Ridge Valley – Naraina link at 13.01hrs.
4	220kV Bamnauli – Naraina Ckt. –II	At Bamnauli : : Bus bar protection operated. At Naraina : supply failed.	12.46	16.07	
5	400/220kV 500MVA ICT-II	ICT tripped on Group I&II, 86A, 220kV I/C –II tripped on 86	12.46	14.31	
6	220kV Bus Section – II at Bamnauli	96B, Bus Bar protection A&B.	12.46	16.29	Tried at 13.12hrs. but again tripped at 13.18hrs.
7	220kV Bamnauli – Dial Ckt. –I	At Bamnauli : Bus bar protection operated. At Dial : supply failed.	12.46	13.12	220kV Bamnauli –Dial Ckt–II was under shut down for attending hot point at tower no 1 & 7. At 13.40hrs supply restored at Dial S/Stn
8	220kV Bamnauli – Dial Ckt. –I	At Bamnauli : Bus Section – II tripped. At Dial : supply failed.	13.18	13.40	
9	220/66kV 160MVA Tr. at Mehrauli	Tripped on Differential	13.18	14.50	

DETAILS OF LOAD SHEDDING :

DURATION (hrs)		LOAD IN MW	GRID / AREAS AFFECTED	REMARKS
FROM	TO			
BYPL			220kV NARAINA	
12:46	12:47	15	DMS	
12:52	13:04	15	DMS	
TPDDL			220kV NARAINA	DUE TO TRIPPING OF 220kV NARAINA - BAMNAULI CKT.-I&II
12:46	12:47	16	A-21 NARAINA GRID,PAYAL GRID	
12:46	12:55	15	INDER PURI	
12:46	13:02	17	220 KV NARAINA,PANDAV NAGAR	
BRPL			220kV NARAINA	
12:46	13:02	20	MAYAPURI	DUE TO TRIPPING OF 220kV NARAINA - BAMNAULI CKT.-I&II
			220KV MEHRAULI	
12:43	14:41	30	BIJWASAN	DUE TO TRIPPING OF 220kV MEHRAULI - BTPS CKT.-I&II & 220kV Bamnauli – Dial Ckt. –I and 220kV Bamnauli – Dial Ckt. –II was under shutdown.
12:43	14:15	40	CDOT	
12:43	13:14	7	ADCHINI	
12:43	13:27	16	ANDHERIA BAGH	
12:43	13:46	12	VASANTKUNJ C BLK	
12:43	13:46	11	VASANTKUNJ B BLK	
12:43	14:33	12	VASANTKUNJ D BLK	
12:43	13:19	7	VASANT VIHAR	
12:43	13:46	1	VKJ INSTITUTIONAL AREA	
12:43	13:46	11	JNU	
12:43	13:46	10	220kV VASANT KUNJ(11kV LOAD)	
12:43	13:05	5	IIT	
12:43	13:07	8	R K PURAM-1	
12:43	13:06	10	TUGHALKABAD	
12:43	13:46	3	33KV PALAM	
12:43	15:05	10	IGNOU	
12:43	13:15	8	D C SAKET	
12:43	13:46	4	AMBIENCE MALL	
12:43	13:27	9	BHIKAJI KAMA	
12:43	13:46	10	AEROCITY	
12:43	14:30	11	220kV MEHRAULI (11kV LOAD)	

10 Preliminary report on tripping occurred on 11.09.17 at 220kV Naraina S/Stn.

The following Elements tripped while arranging shutdown of 220kV 100MVA Tr. –III, 33kV Bus –I and 33kV Kribi Place Ckt. –I & II on 11.09.2017 at 220kV Naraina S/Stn.

S. No	Name of the Elements tripped	Relay indications	Time of tripping in Hrs.	Time of Restoration in Hrs.	Remarks
1	220/33kV 100MVA Tr. –III at Naraina	Tr. tripped on O/C, E/F. 33kV I/C Tripped on O/C, E/F.	05.40	05.50	220/33kV 100 MVA Tr. –I is under break down since 26.07.2017 33kV Bus –II isolator jaw and insulator disc of 33kV Kribi Place Ckt.-I damaged.
2	33kV I/C-II of 220/33kV 100MVA Tr. –II	33kV I/C tripped on O/C, E/F.	05.40	12.30	

Details of Loss of Generation : NIL
Details of load affected : 95MW (05.40HRS. TO 05.50HRS.)

11 Preliminary report on trippings occurred in Delhi system on 08.11.2017.

The following tripping occurred in Delhi system early morning on 08.11.2017 at 01.45hrs & onwards due to fog.

S. No	Name of the elements tripped	Relay indications	Time of tripping in Hrs.	Time of Restoration in Hrs.
1	220kV Gopalpur –Mandola Ckt.-II	At Gopalpur : Y Phase differential trip, 86ABC	01.45	05.06
2	220kV Bamnauli – Papankalan-II Ckt. –I	At Bamnauli : Dist Prot, Zone-I, Dist 14.2Km, E/F. At Papankalan-II : Dist prot, zone-4, 86.	03.09	08.26
3	220/66kV I/C-I at Okhla	I/C tripped on O/C, B Phase.	04.40	05.10
4	220kV Bawana – Khanjawala Ckt. –II	At Bawana : Dist Prot, zone-I, Dist 3.74Km At Khanjawala : Dist Prot, Dist 24.36Km.,	04.48	08.30
5	220kV DSIDC Bawana – Narela Ckt. –II	At Narela : Dist Prot, Zone-I, Dist 2.7km, Low Air pressure of CB	05.01	17.48
6	220/66kV 100MVA Tr. –II at Wazirabad	E/F.	05.07	11.29
7	220kV Geeta Colony – Wazirabad Ckt. –II	At Geeta Colony : Dist Prot, Zone-I, Dist 939.4mts. At Wazirabad : Ckt. did not trip.	05.02	08.40
8	220kV Mandola – Wazirabad Ckt. –II	At Mandola : At Wazirabad : Ckt. did not trip.	05.20	09.03
9	220kV Gopalpur –Subzi Mandi Ckt.-I	At Gopalpur : Dist Prot, Zone-I, Dist 6.029km At Subzi Mandi : Ckt. did not trip.	05.28	07.35
10	220kV Bawana – Khanjawala Ckt.-I	At Bawana : Dist Prot, Zone-I, Dist4.18km At Khanjawala : Ckt. did not trip.	05.37	08.56
11	220kV Narela –Rohtak Road Ckt.-II	At Narela : Dist Prot, Zone-I,	05.41	07.48
12	220/66kV 100MVA Tr. –III at Sarita Vihar	REF	06.05	13.50

12 Preliminary report on 220kV tripping occurred in Delhi system on 26.11.2017.

The following tripping occurred in Delhi system on 26.11.2017

S. No	Name of the elements tripped	Relay indications	Tripping Time (in Hrs.)	Restoration Time of (in Hrs.)
1	At Sarita Vihar, 220/66kV 100 MVA-III, Alongwith 66 kV I/C-III	Tr. tripped on Overflux LV/HV REF . I/C tripped on 86 AB	01:13	02:15
2	220/66kV 100MVA Tr.-I at Gazipur alongwith I/C-I	Over voltage	01:15	07:50
3	220/66kV 100MVA Tr.-II at Gazipur alongwith I/C-II	Over voltage	01:15	07:50
4	66kV I/C-III at Gazipur	Over voltage	01:15	07:50
5	220 kV Ghazipur- Noida Sec 62 Ckt.	At Ghazipur :Overvoltage	01:15	10.50
6	220kV Harsh Vihar- Preet Vihar Ckt-1	At Preet Vihar : Overvoltage	01:16	01:19
7	220kV Preet Vihar- Patparganj Ckt-1	At Patpatganj : Overvoltage	01:16	01:28
8	220kV Patpatganj- Gazipur Ckt.	At Ghazipur :Overvoltage	01:15	18.30
9	220kV Maharani Bagh-Sarita Vihar Ckt.	At Maharani Bagh : Overvoltage	01:16	02.11
10	220/66kV 100 MVA-I at 220kV Park Street	Over flux	01:17	01:25
11	220/33kV 100 MVA-I at 220 kV Park Street	Over flux	01:31	01.37
12	220/33kV 100 MVA-II at 220 kV Park Street	Long time pump running	01:31	02:10
13	220kV Maharani Bagh –Electric Lane Ckt. – I	At Electric Lane : Overvoltage	02.34	07.18
14	220kV Harsh Vihar- Preet Vihar Ckt-1	At Preet Vihar: Overvoltage	02:55	07:25
15	220kV Preet Vihar- Patparganj Ckt-1	At Preet Vihar: Overvoltage	02:55	07:25
16	220/33kV 100MVA Tr. –II at Masjid Moth	Differential, non directional E/F, O/C. 33kV I/C tripped on 86.	03.57	10.20
17	220kV Maharani Bagh –Masjid Moth Ckt. – I	At Maharani Bagh : Overvoltage	03.57	16.05
18	160 MVA-Tr-I at 220 kV Ghazipur	86, Earth fault.	07:32	17.05

Generation loss

Sr No	Name of Unit	Generation (in MW)	Tripping Time (Hrs.)	Synchronizing Time (Hrs.)	Reason
1	PRAGATI # STG	107	01.15	11.02	Tripped
2	PRAGATI # 1	86	01.34	05.40	Made off
3	PRAGATI # 2	78	01.34	02.25	Tripped
	Total	271			

DETAILS OF LOAD SHEDDING :

DURATION (hrs)		LOAD IN MW	AREAS / GRID AFFECTED	REMARKS
FROM	TO			
BRPL				
01:30	01:35	9	JASOLA	Due to tripping of 100MVA Pr. Tr.-III at Sarita Vihar
01:30	01:47	12	SARITA VIHAR, MATHURA ROAD	
04:00	04:08	2	MASJID MOTH	Due to tripping of 220kV Maharani Bagh – Masjid Moth Ckt. –I alongwith 33kV I/C –II at Masjid Moth
BYPL				
01:16	01:35	5	SHASTRI PARK (C)	Due to tripping of 220kV Harsh Vihar – Preet Vihar Ckt. –II (Ckt. –I was in off position due to High Voltage) and tripping of 220kV Patparganj – Gazipur Ckt. and tripping of 220kV Gazipur –Noida Sec. 62 Ckt. alongwith 66kV I/C I, II & III at Gazipur
01:16	01:20	4	ANAND PARBAT	
01:16	01:28	6	PRASAD NAGAR	
01:16	01:18	4	PREET VIHAR	
01:16	01:23	3	CBD-1	
01:28	01:33	4	PPG INDUSTRIAL AREA	
01:30	01:32	8	SHANKAR ROAD	
01:30	01:31	3	KONDLI	
01:30	01:31	5	MVR-2	
01:30	01:31	5	DALLUPURA	
01:30	01:50	2	220KV GAZIPUR	
01:30	01:34	4	FAIZ ROAD	
01:30	01:40	14	MOTIA KHAN	
01:30	01:31	3	NEW KONDLI	
07:30	07:32	10	DALLUPURA	
07:30	07:32	8	KONDLI	
07:30	07:32	6	NEW KONDLI	
07:30	07:32	6	MVR-2	
07:30	07:32	2	PPG INDUSTRIAL AREA	
07:30	07:52	5	220KV GAZIPUR	
TPDDL				
01:20	01:21	2	PUSA	Due to tripping of 220/66kV 100MVA Pr. Tr.-I& 2 & 220/33kV 100MVA Pr. Tr. –II at Park Street

13 Preliminary report on trippings occurred in Delhi system on 11.12.2017.

The following tripping occurred in Delhi system early morning on 11.12.2017 at 23.34hrs & onwards due to High Voltage.

S. No	Name of the elements tripped	Relay indications	Time of tripping in Hrs.	Time of Restoration in Hrs.	Remarks
400kV System					
1	400kV Maharani Bagh – Dadri Ckt.	High voltage	23.31	06.55	
2	400kV Maharani Bagh – Ballabgarh Ckt.	High voltage	00.18	06.33	
3	400/220kV 500MVA ICT-4	Over flux	03.04	06.40	
4	400/220kV 500MVA ICT-3	Over flux	03.04	06.43	
5	400/220kV 315MVA ICT-1	Over flux	03.04	06.59	
6	400kV Bawana – Deepalpur Ckt.	High Voltage	23.54	08.22	
7	400kV Bhiwani – Bawana Ckt.	High Voltage	02.53	08.30	
220kV System					
1	220kV Maharani Bagh-Trauma Center Ckt. –I	At Trauma Center : High Voltage	23.34	06.20	
2	220/66kV 100MVA Tr. –I at Gazipur	Over flux	00.20	07.10	
3	220/66kV 100MVA Tr. –I at Gazipur	Over flux	00.20	07.10	
4	220kV Maharani Bagh-Masjid Moth Ckt. –I	At Masjid moth : Over voltage	00.20	08.50	
5	220/33kV 100MVA Pr. Tr. –III	33kV I/C tripped	00.20	08.50	
6	220kV Maharani Bagh-Sarita Vihar Ckt.	At Maharani Bagh : Over voltage	00.20	07.09	
7	220kV Bawana-DSIDC Bawana Ckt.-I	At Bawana : Over voltage At DSIDC Bawana : Supply failed	01.09	11.24	At 01.28hrs. load of DSIDC Bawana S/stn taken on 220kV Narela-Mandola Ckt. I&II
8	220kV Bawana-DSIDC Bawana Ckt.-II	At Bawana : Over voltage At DSIDC Bawana : Supply failed	01.09	11.22	
9	220/66kV 100MVA Tr. –I at Khanjawala	Overflux	00.51	07.40	
10	220kV Wazirpur-Shalimarbagh Ckt. –I	High Voltage	02.53	08.30	At 03.07hrs. load of Wazir Pur S/stn taken on 220kV Wazir Pur – Peera Garhi-Mundka Link

Generation loss

Sr No	Name of Unit	Generation (in MW)	Tripping Time (Hrs.)	Synchronizing Time (Hrs.)	Reason
1	PRAGATI # 2	66	00.28	Still out	Grid disturbance
2	PRAGATI # STG	107	00.28	03.01	Grid disturbance
	Total	173			

DETAILS OF LOAD SHEDDING :

DURATION		LOAD IN MW	AREAS / GRID AFFECTED	REMARKS
FROM	TO			
BRPL				SUPPLY OF 220kV RIDGE VALLEY, NARAINA, TRAUMA CENTRE S/STN FAILED DUE TO TRIPPING OF 220kV MAHARANI BAGH -TRAUMA CENTRE CKT.-I
23:34	23:48	28	RIDGE VALLEY	
23:34	23:51	4	IIT	
23:34	23:53	8	BHIKAJICAMA PLACE	
23:34	23:54	9	MAYA PURI	
BYPL				
23:34	23:37	4	DMS	
TPDDL				
23:34	23:38	8	A-21, NARAINA,INDERPURI,PAYAL	
23:34	23:53	2	PANDAV NAGAR	

14 Preliminary report on trippings occurred in Delhi system on 31.12.2017 & 01.01.2018

The following tripping occurred in Delhi system on 31.12.2017 at 22:55hrs onwards due to dense fog.

S. No	Name of the elements tripped	Relay indications	Time of tripping in Hrs.	Time of Restoration in Hrs.	Remarks
01	220kV DSIDC Bawana – Narela Ckt. –II	At Narela : Dist Prot, Zone-II, 186, RYB Phase. At DSIDC Bawana	22:55	19.04 01.01.18	Ckt. was on no load.
02	220kV Narela –Rohtak Road Ckt.-II	At Narela : Dist Prot, Zone-I, Dist 19.31Km.	23:11	00:09	--
03	220kV Narela –Rohtak Road Ckt.-I	At Narela : Dist Prot, Zone-I, 186.	00:42	17.05	At 02.55hrs ckt tried but did not hold.
04	220kV Narela –Panipat Ckt.-I	At Narela : Supply failed from Panipat.	00:33	02:12	--
05	220kV Narela –Panipat Ckt.-II	At Narela : Supply failed from Panipat.	00:33	02:12	--
06	220kV Narela –Panipat Ckt.-III	At Narela : Supply failed from Panipat.	00:33	16.15	--
07	220kV Mehrauli – Vasant Kunj Ckt. –II	At Mehrauli : Dist prot, Zone-I, B Phase, Active Group –I.	02:25	19.58	B Phase LA damaged.

S. No	Name of the elements tripped	Relay indications	Time of tripping in Hrs.	Time of Restoration in Hrs.	Remarks
08	220kV Narela – Mandola Ckt.-I	At Narela : Dist prot, Dist 5.28km.186.	02:49	18.34	Narela stn got dead from 02.49hrs to 02.55hrs. Load taken on 220kV DSIDC Bawana-Bawana ckt-I.
09	220kV Narela – Mandola Ckt.-II	At Narela : Differential, 86A, 86C	02:49	03:15	
10	220kV Narela –Rohtak Road Ckt.-II	At Narela : Dist Prot, Zone-I, 186.	03:59	18.05	220kV Rohtak Road s/stn got dead.
11	220kV DSIDC Bawana – Bawana Ckt. –I	At DSIDC Bawana : Dist Prot, Zone-I, Dist 1.43Km, 86, RYB Phase. At Bawana : Differential, Dist Prot, Dist 4.880km.	05:08	10.02	Ckt. tried at 08:28hrs. but did not hold.
12	220kV DSIDC Bawana – Bawana Ckt. –II	At DSIDC Bawana : Dist Prot, Zone-I, Dist 1.176 At Bawana : Dist Prot.	05:44	07:07	220kV DSIDC Bawana got dead from 05:44hrs. to 07:07hrs.
13	220kV Narela – Mandola Ckt.-II	At Mandola: Ckt tripped	05.59	06.42	While closing 220kV DSIDC Bawana-Bawana Ckt.-I at Narela, 220kV Mandola-Narela ckt tripped at Mandola. Narela stn got dead from 05.59- 06.42hrs.
14	220kV Pragati – Sarita Vihar Ckt.	At Pragati : Dist Prot, Zone-I E/F, Dist 8.742Km. At Sarita Vihar : Dist Prot, Zone –I, Dist 4.451Km.	05:25	12.02	--
15	220/66kV 100MVA Pr. Tr. –III at Wazirabad	Tr. tripped on E/F	06:52	09:54	--
16	220kV Mandola – Wazirabad Ckt. –IV	At Wazirabad : Dist Prot, Dist 0.576km.	06:53	15:15	--
17	220kV DSIDC Bawana	220kV Bus –I : Bus bar prot. Operated, A&C Phase Zone-I, Y ph, X,Y.	07:17	07.20	--
18	220kV DSIDC Bawana	220kV Bus –II : Bus bar prot. Operated, A&C Phase Zone-I, Y ph. X,Y.	07:20	12:36	--
19	220kV Narela – Mandola Ckt.-II	At Narela: Supply fail	07:45	08:58	Narela stn got dead from 07.45hrs to 08.58hrs. (66kV back feed arrangement done from TPDDL on 66kV Bus DTL to meet Indian Railway load from 08:15hrs.)
20	400kV Bawana – Abdullapur Ckt.-I	At Bawana : Dist, Prot, Zone-I	08:50	17.51	--

15 Preliminary report on trippings occurred in Delhi system on 04.02.2018.

The following tripping occurred in Delhi system on 04.02.2018 at 08:25hrs.

S. No	Name of the elements tripped	Relay indications	Time of tripping in Hrs.	Time of Restoration in Hrs.	Remarks
01	220kV Mandola – Wazirabad Ckt.-I	At Wazirabad : Supply fail. At Mandola : Tripped on Dist prot, Zone-II, Dist 15Km.	08:25	09:35	220kV Mandola - Wazirabad Ckt.-II was under S/D since 08.21 hrs.of 04.02.2018 for replacing earth wire between tower no 15-16
02	220kV Mandola – Wazirabad Ckt.-III	At Wazirabad : Supply fail. At Mandola : Tripped on Dist prot, Zone-II, Dist 15Km.	08:25	09:35	
03	220kV Mandola – Wazirabad Ckt.-IV	At Wazirabad : Supply fail. At Mandola : Tripped on Dist prot, Zone-II, Dist 15Km.	08:25	09:35	
04	220kV Patparganj – Geeta Colony Ckt. –I	At Patparganj : 186, 86A&B, Dist prot, Zone-III, Dist 9.354Km. At Geeta Colony : No tripping.	08:25	08:39	
05	220kV Patparganj – Geeta Colony Ckt. –II	At Patparganj : 186, 86A&B. At Geeta Colony : No tripping.	08:25	08:32	

System configuration during the incident

Prior to the incident, GT Unit #2 & STG #1 and PPCL Unit #1 were connected to Grid through 220kV IP Ext (Pragati) -IP -Patparganj - Geeta Colony- Wazirabad - Mandola and 220kV Bus Coupler at Pragati was in off position. Due to tripping of 220kV Mandola-Wazirabad Ckt.-I, III & IV at Mandola and 220kV Patparganj - Geeta Colony ckt.-I & II at Patparganj end; Generating units of GT Station and Pragati-1 got islanded from the Grid and it collapsed subsequently.

At 08:33hrs. 220kV Bus Coupler closed at Pragati and supply was extended to G.T. & Pragati. Load of I.P. & RPH also normalized.

At 08:34hrs. 220kV Preet Vihar-Patparganj Ckt.-II closed at Patparganj and load of Patparganj S/Stn normalized.

At 08:40hrs. 220kV Patparganj-Geeta Colony Ckt.-I & II closed at Geeta Colony and load of Geeta Colony S/Stn normalized.

At 08:47hrs. 220kV Gopalpur – Wazirabad Ckt.-I closed at Wazirabad and load of Wazirabad & Kashmirigate S/Stn normalized.

Generation loss

Sr No	Name of Unit	Generation (in MW)	Tripping Time (Hrs.)	Synchronizing Time (Hrs.)
1	PRAGATI # 1	83	08:25	13:16
2	GT#	28	08:25	08:40
3	STG	11	08:25	11:15
	Total	122		

DETAILS OF LOAD SHEDDING

<i>DURATION (Hrs)</i>		<i>LOAD IN MW</i>	<i>AREAS / GRID AFFECTED</i>
<i>FROM</i>	<i>TO</i>		
<u>BRPL</u>			<u>220kV IP</u>
08:25	08:32	34	KILOKRI, EXHB GROUND I&II, LAJPAT NAGAR, NIZAMUDDIN.
<u>TPDDL</u>			<u>220kV KASHMERI GATE</u>
08:25	08:40	2	11kV LOAD
08:25	08:26	4	CIVIL LINE
<u>BYPL</u>			
08:25	08:30	3	220KV PPG 11KV LOAD
08:25	08:32	32	GH – 1 & 2, PPG IND. AREA.
08:25	08:33	31	DDU MARG, DELHI GATE, G. B PANT , I. G STADIUM, MINTO ROAD , VIVEK VIHAR
08:25	08:34	43	KARKARDOOMA, KHICHRIPUR, PREET VIHAR CBD – 2, GEETA COLONY
08:25	08:35	6	JAMA MASJID, FOUNTAIN
08:25	08:36	9	KAMLA MARKET
08:25	08:38	4	TOWN HALL
08:25	08:39	52	KANTI NAGAR, KRISHANA NAGAR, LAHORI GATE, GEETA COLONY, KAILASH NAGAR, SHAKARPUR
08:25	08:40	4	FOUNTAIN, AKSHARDHAM
08:25	08:41	5	220KV KASHMERI GATE, JAMA MASJID
08:25	08:43	10	SEELAMPUR
08:25	08:45	16	220KV WAZIRABAD
08:25	08:48	8	SHASTRI PARK EAST
08:25	08:49	49	EAST OF LONI ROAD, SEELAMPUR, YAMUNA VIHAR
08:25	08:50	24	SONIA VIHAR, G.T ROAD
08:25	08:57	17	CBD - 1
08:25	09:04	16	GURU ANGAD NAGAR

16 Preliminary report on trippings occurred in Delhi system on 08.02.2018.

The following tripping occurred in Delhi system on 08.02.2018 at 15:50hrs.

S. No	Name of the elements tripped	Relay indications	Time of tripping in Hrs.	Time of Restoration in Hrs.
01	220kV Maharani Bagh–Gazipur Ckt.-II	At Gazipur : Bus Bar prot Operated	15:50	15:57
02	220/66kV 100MVA Tr. -I	At Gazipur : Bus Bar prot Operated	15:50	15:57
03	220/66kV 100MVA Tr. -II	At Gazipur : Bus Bar prot Operated	15:50	15:57
04	220/66kV 160MVA Tr.	At Gazipur : Bus Bar prot Operated	15:50	15:57

DETAILS OF LOAD SHEDDING :

<i>DURATION (Hrs)</i>		LOAD IN MW	AREAS / GRID AFFECTED
FROM	TO		
BYPL			
15:48	15:56	4	KONDLI
15:48	15:56	2	NEW KONDLI
15:48	15:56	7	DALLUPURA
15:48	15:56	5	MAYUR VIHAR - 1
15:48	15:56	7	MAYUR VIHAR - 2
15:48	15:50	7	KHICHRIPUR
15:48	15:52	10	PPG. IND. AREA
15:48	15:52	6	GH - 1
15:48	15:52	6	GH - 2
15:48	15:56	3	220KV GAZIPUR(11kV LOAD)
15:48	15:54	21	JHILMIL
15:48	15:54	23	G.T ROAD

17 Preliminary report on 220kV tripping occurred in Delhi system on 14.02.2018 at 08:49hrs

The following tripping occurred in Delhi system on 14.02.2018 at 08:49hrs. while transferring the load to give shutdown to 400kV Maharani Bagh..

S. N	Name of the elements tripped	Relay indications	Tripping Time (in Hrs.)	Restoration Time of (in Hrs.)	Remarks if any
1	220/66kV 160MVA Tr. -I at 220kV Pragati		08:49	15:14	R phase Jumper of 220kV Bus coupler connecting 220kV Bus – II snapped at 220kV Pragati
2	220/66kV 160MVA Tr. -II at 220kV Pragati		08:49	08:58	
3	220 kV Pragati – I.P. Ckt. -I & II		08:49	08:54	
4	220 kV Pragati – Maharani Bagh Ckt.		08:49	09:04	
5	220 kV Pragati – Sarita Vihar Ckt.		08:49	09:03	
6	220 kV Pragati – Park Street Ckt. -I		08:49	09:08	
7	220 kV Pragati – Park Street Ckt. -II		08:49	09:17	
8	220/66kV 220kV 160MVA Tr. -II at 220kV Park Street	E/F	09:00	11:35	

System configuration during the incident

Prior to the incident, Bus Coupler at Pragati was in ON position and Pragati & GT Station was connected to Grid through 220kV IP Ext (Pragati) -IP -Patparganj - Geeta Colony-Wazirabad - Mandola Ckts. The Pragati was also connected to Maharani Bagh through 220kV Pragati–Maharani Bagh Ckt. Due to snapping of R phase Jumper of 220kV Bus coupler connecting 220kV Bus–II at Pragati, 220/66kV 160MVA Tr.–I & II at 220kV Pragati was tripped. All the Ckt. emanating from the 220KV Pragati was also tripped resulting in isolation of generator from the Grid hence Generating units of GT Station and Pragati-1 collapsed subsequently.

Generation loss

Sr No	Name of Unit	Generation (in MW)	Tripping Time (Hrs.)	Synchronizing Time (Hrs.)	Reason
1	PRAGATI # STG	107	08:49	14:32	Tripped
2	PRAGATI # 1	85	08:49	11:59	Tripped
3	PRAGATI # 2	81	08:49	10:28	Tripped
4	G.T. –I	24	08:49	9:55	Tripped
5	G.T.-2	27	08:49	11:40	Tripped
6	STG-1	23	08:49	13:25	Tripped
	Total	347			

DETAILS OF LOAD SHEDDING

DURATION		LOAD IN MW	AREAS / GRID AFFECTED	REMARKS
FROM	TO			
BYPL				R phase Jumper of 220kV Bus coupler connecting 220kV Bus –II snapped at Pragati
08:49	08:57	8	ANAND PARVAT	
08:49	09:24	10	SHASTRI PARK (C)	
08:49	08:56	11	FAIZ ROAD	
08:49	09:16	17	PRASHAD NAGAR	
08:49	09:00	15	MOTIA KHAN	
08:49	09:01	12	SHANKAR ROAD	
08:49	08:59	3	AKSHARDHAM	
08:49	08:59	10	MAYUR VIHAR - 2	
TPDDL				
08:49	08:50	5	PUSA	

18 Preliminary report on 220kV tripping occurred in Delhi system on 14.02.2018 at 17.46hrs.

The following tripping occurred in Delhi system on 14.02.2018 at 17:46hrs due to 400/220kV 315MVA ICT-I was made off by PGCIL without intimating to SLDC, Delhi.

S. No	Name of the elements tripped	Relay indications	Tripping Time (in Hrs.)	Restoration Time of (in Hrs.)	Remarks if any
1	220 kV Maharani Bagh-Sarita Vihar Ckt.	At Maharani Bagh : 86, O/V	17:46	17:48	315MVA ICT-I WAS MADE OFF BY WITHOUT INFORMING SLDC OR 220kV MAHARANI BAGH OPERATION STAFF WHILE AVAILING SHUT DOWN OF 400kV BUS -I&II AT 400kV MAHARANI BAGH (SUPPLY FAIL AT 220kV PARK STREET & GAZIPUR)
2	220 kV Maharani Bagh-Masjid Moth Ckt.-II	At Maharani Bagh : 86	17:46	18:28	
3	220 kV Maharani Bagh-Electric Lane Ckt.-II	At Maharani Bagh : 86	17:46	19:48	
4	220kV Maharani Bagh – Gazipur Ckt. –I	At Gazipur : 86.	17:50	18:01	
5	220/66kV 100MVA Tr. –I & II at 220kV Gazipur	86, UFR	17:50	18:01	

System configuration during the incident

Prior to the incident Pragati Station was connected to Grid through 220kV IP Ext (Pragati) – Maharani Bagh Stn due to 400/220kV 315MVA ICT-I at Maharani bagh made off by PGCIL without intimating SLDC, Delhi, Pragati STG & generating unit of EDWPCL tripped resulting islanding the load of Sarita Vihar, Park Street, Pragati, Masjid Moth, Electric Lane and Gazipur. System was synchronized by switching on the 220kV BTPS – Sarita Vihar ckt. I&II AT 17:47hrs..

Generation loss

Sr No	Name of Unit	Generation (in MW)	Tripping Time (Hrs.)	Synchronizing Time (Hrs.)	Reason
1	PRAGATI # STG	56	17:49	18:39	Tripped
2	EDWPCL	1	17:49	21:57	Tripped
	Total	57			

DETAILS OF LOAD SHEDDING :

DURATION		LOAD IN MW	AREAS / GRID AFFECTED
FROM	TO		
BYPL			
17:46	17:49	12	ANAND PARBAT
17:46	17:49	5	SHASTRI PARK (C)
17:46	17:49	16	PRASHAD NAGAR
17:46	18:02	6	KONDLI
17:46	18:02	3	NEW KONDLI
17:46	18:02	9	DALLUPURA
17:46	18:13	1	220kV GAZIPUR (11kV LOAD)

DETAILS OF UNDER FREQUENCY RELAYS OPERATED :

Substation	Feeders as per approved List	Under-frequency Setting	Tripped (Yes/No)	Relief in MW(approx)	Remarks (if any)
Gazipur	66kV Kondli-1	48.6Hz	Yes	ON (no load)	
	66kV Kondli-2	48.6Hz	Yes	23.21	
	66kV PPG Ind Aea	48.8Hz	Yes	ON (no load)	
	66kV Vivek Vihar ckt-2	48.8Hz	Yes	22.29	
	11kV Telco-1	48.6Hz	Yes	0.15	
	11kV Telco-2	48.6Hz	Yes	0.11	
	11kV Fish Market-1	49.0Hz	Yes	0.23	
	11kV Fish Market-2	49.0Hz	Yes	OFF	
Sarita Vihar	66kV Mathura Road-2	48.6Hz	Yes	14.86	
	11kV Jaitpur	49.0Hz	Yes	1.14	
	11kV Aali Village	49.0Hz	Yes	0.95	
Park Street	66 kV Ridge Valley ckt-1	49.0Hz	Yes	ON (no load)	
	66 kV Ridge Valley ckt-2	49.0Hz	Yes	OFF	
	66 kV Shastri Park -1	49.0Hz	Yes	6.29	
	66 kV Shastri Park -2	49.0Hz	Yes	28.01	
	33 kV Prasad Nagar	49.2Hz	Yes	10.57	
Masjid Moth	33kV Balaji	49.0Hz	Yes	ON (no load)	220kV Masjid Moth Ckts. tripped from 220kV Maha Ranibagh end.
	33kV Pushp Vihar	48.8Hz	Yes	ON (no load)	
	33kV Shivalik	49.9/0.2 Slope	Yes	ON (no load)	
Total Relief in MW:				107.82	

19 Preliminary report on 220kV tripping occurred in Delhi system on 21.02.2018 at 12.28 hrs onwards.

The following tripping occurred in Delhi system on 21.02.2018 at 12.28hrs.

S. No	Name of the elements tripped	Relay indications	Tripping Time(Hrs.)	Restoration Time (Hrs.)	Remarks if any
1	220kV BTPS – Mehrauli Ckt.-II	At BTPS : Dist prot, Zone-I, dist 5.5Kms., RY Phase. At Mehrauli : ckt. did not trip.	12:28	20:27	Middle phase strands off 220kV BTPS-Mehrauli Ckt.-II found damaged between tower no 24 & 25.
2	220kV BTPS – Okhla Ckt -II	At BTPS : E/F. At Okhla : ckt. did not trip.	12.28	13.41	
3	220kV BTPS – Mehrauli Ckt.-I	At BTPS : RYB Phase, Zone-III. At Mehrauli : ckt. did not trip.	12:28	20:03	
4	220kV Maharani Bagh – Masjid Moth Ckt. –II	At Maharani Bagh : Y&B Phase trip, O/V,	12.28	14.10	
5	220kV BTPS – Ballabgarh Ckt.-I	At BTPS : Power swing detected & Ckt. tripped at Ballabgarh	12.29	13.05	

S. No	Name of the elements tripped	Relay indications	Tripping Time(Hrs.)	Restoration Time (Hrs.)	Remarks if any
6	220kV BTPS – Ballabgarh Ckt.-II	At BTPS : Power swing detected & Ckt. tripped at Ballabgarh	12.29	13.05	
7	220kV Pragati- Sarita Vihar ckt.	At Sarita Vihar : Dist prot, Zone-I, 186A&B. At Pragati : Ckt. did not trip.	12.29	12.59	
8	220kV Maharani Bagh – Sarita Vihar Ckt.	At Sarita Vihar: RYB Phase trip, Dist prot, Zone-I, Dist 4.667Kms. At Maharani Bagh: RYB Phase trip.	12.30	15.52	
9	220kV Bus Coupler at 220kV Mehrauli	O/C, R phase.	12.32	12.58	
10	220kV BTPS –Alwar Ckt.	At BTPS : Ckt. tripped on O/C from Alwar.	12.35	18.46	

System configuration during the incident

Prior to the incident, Bus Coupler at Pragati was in Off position and Pragati generation (GT-1, GT-2 & STG) was connected to Grid through 220kV IP Ext (Pragati)-Sarita Vihar-BTPS-Ballabgarh, BTPS-Alwar & BTPS-Mehrauli-DIAL-Bamnauli.

Due to tripping of 220kV BTPS-Mehrauli ckts and 220kV BTPS –Ballabgarh Ckts & 220kV BTPS-Alwar ckt. Pragati STG got tripped in jerk and a small island of Pragati GT-1 & GT-2 formed feeding the load of 220kV Park Street Stn & 220kV Gazipur Stn. Island was tried to synchronize with grid at 220kV I.P. Extn (Pragati) and also at 220kV Maharani Bagh but could not synchronized.

System was restored after getting Ballabgarh supply from BTPS and further extended to Sarita Vihar and Pragati Stn at 13.45hrs.

Generation loss

Sr No	Name of Unit	Generation (in MW)	Tripping Time (Hrs.)	Synchronizing Time (Hrs.)
1	PRAGATI # 1	81	13.37	14.20
2	PRAGATI # 2	79	13.37	13.57
3	PRAGATI # STG	108	12.34	14.55
	Total	268		

DETAILS OF LOAD SHEDDING

(MULTIPLE TRIPPINGS OF LINES AT BTPS END RESULTING INTO ISLANDING OF PRAGATI)

DURATION (hrs)		LOAD IN MW	AREAS / GRID AFFECTED
FROM	TO		
BYPL			
12:29	12:57	8	ANAND PARBAT
12:51	12:54	24	FAIZ ROAD, KONDLI GHARAULI, NEW KONDLI
12:51	13:04	14	ANAND PARBAT
13:41	13:42	2	AKSHARDHAM TEMPLE
13:08	13:50	14	ANAND PARVAT, PRASAD NAGAR
13:26	13:27	14	FAIZ ROAD
13:26	13:50	10	PRASAD NAGAR
13:26	13:37	10	ANAND PARBAT
13:08	13:50	15	SHASTRI PARK CENTRAL
13:37	13:46	22	MOTIA KHAN, SHANKAR ROAD
12:51	13:55	3	220 kV GAZIPUR (11kV LOAD)
BRPL			
220kV MEHRAULI			
12:28	13:26	67	IGNOU, CDOT, MALVIYA NAGAR CKT-2, 11KV LOAD
220kV OKHLA			
12:28	13:58	105	OKHLA PH-I, BALAJI, EAST OF KAILASH, MALVIYA NAGAR CKT-1 & 2, TUGLAKABAD, BATRA, 11KV LOAD
12:28	14:02	12	ALAKHNANDA
12:28	14:10	28	NEHRU PLACE
12:28	13:59	12	MASJID MOTH, VSNL 1 & 2
12:28	14:03	21	OKHLA PH-2
220kV VASANT KUNJ			
12:28	12:40	10	66KV PALAM
12:28	13:10	56	VASANT KUNJ C BLK & D BLK.
220kV SARITA VIHAR			
12:28	13:58	67	JASOLA, 66KV SARITA VIHAR, MATHURA ROAD, MCIE, MEETHAPUR, 11KV LOAD
220kV MASJID MOTH			
12:28	14:10	17	SIRIFORT, D.C.SAKET
TPDDL			
12:29	12:45	5	PUSA
NDMC			
12:29	12:34	2	NIRMAN BHAWAN, HANUMAN ROAD, STATE GUEST HOUSE, BRAID LANE I&II, B.D.MARG CKT. I & II
13:39	13:43	39	VIDYUT BHAWAN CKT.-I

DETAILS OF UFR TRIPPINGS

S/Stn	Name of Feeders	Time	Stage	MW
Park Street	33kV Prasad Nagar	12:28	49.2 Hz	12.28
	66kV Shastri Park-1	12:28	49.0Hz	16
	66kV Shastri Park-2	12:28	49.0Hz	33.15
	66kV Ridge Valley-1	12:28	49.0Hz	no load
	66kV Ridge Valley-2 (off position)		49.0Hz	off
Masjid Moth	33kV Balaji	12:28	49.0 Hz	No load
	33kV Pushp Vihar	12:28	48.8 Hz	7.315
	33kV Shivalik	12:29	df/dt slope 0.2	No Load
Gazipur	66kV PPG Ind Aea	12:28	48.8Hz	No load
	66kV Vivek Vihar ckt-2	12:28	48.8Hz	No load
	11kV Fish Market-1	12:28	49.0Hz	0.533
	11kV Fish Market-2	B/D off	49.0Hz	off