



**DELHI TRANSCO LIMITED**  
(A Govt. of NCT of Delhi Undertaking)  
An ISO 9001:2008 certified company  
Office of DGM(T) OS, Convener-OCC  
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No. F.DTL/831/F.4/2016-17/DGM (OS)/97

Date:21.03.2017

To,  
**All Members of Operation Co-ordination committee**

<b>DTL</b>	General Manager (O&M)-I, Chairman OCC General Manager (O&M)-II Executive Director (Planning) Fax No.011-23622707 DGM (O&M)- North, East, West, South DGM (M/P) DGM(Plg.)	Fax no. 011-23366160
<b>SLDC</b>	GM (SLDC) DGM (SO)	Fax no. 011-23221069 Fax no. 011-23221059/12,
<b>TPDDL</b>	HOD (PSC &AM) Sr. Manager (PSC)	Fax no. 011-66050602 Fax no. 011-66050602
<b>BRPL</b>	Asstt. Vice President (SO)	Fax no. 011-39996549
<b>BYPL</b>	General Manager (SO)	Fax no. 011-39996549
<b>NDMC</b>	Superintending Engineer	Fax no. 011-23235754
<b>IPGCL</b>	AGM (T) COS AGM (T) Opr. GTPS	Fax no. 011-23284797 Fax no. 011-23370884
<b>PPCL</b>	DGM (T) Opr. PPS-I	Fax no. 011-23378947
<b>DGM (T) Opr.</b>	PPS-III	Fax no. 011-27791175
<b>MES</b>	AEE/M.SLDC Officer	
<b>BTPS</b>	AGM (EEMG)	Fax no. 011-26944348
<b>BBMB</b>	Sr. Executive Engineer, O&M	Fax no. 011-28315542
<b>DMRC</b>	Addl. GM (Elect.)	Special Invitee
<b>DMRC</b>	General Manager (Elect.)	Special Invitee
<b>N. Railways</b>	Sr. DEE (TRD)	Special Invitee
<b>EDWPCL</b>	Director(EDWPCL)	Special Invitee
<b>Delhi MSWSL</b>	StationIncharge	Special Invitee

**Sub: Agenda for OCC Meeting to be held on 28.03.2017(Tuesday) at 2:30 P.M.**

Dear sir/madam,

The next OCC meeting is scheduled to be held on dt.- **28.03.2017(Tuesday) at 2:30 P.M.** at the following venue:-

**SLDC Building, Minto Road, Opp. MCD Civic Centre, New Delhi-110002**

You are hereby requested to attend the meeting in accordance with the agenda enclosed herewith.

Thanking You.

**Encl: Agenda for OCC meeting to be held on 28.03.2017(Tuesday) at 2:30 P.M.**

sd/-

Yours Sincerely,

**(Hitesh Kumar)**  
**DGM(OS),DTL**  
**Convener-OCC**

**DELHI TRANSCO LIMITED**

(Regd. Office: Shakti Sadan, Kotla Road, New Delhi-110002)

**AGENDA FOR OCC MEETING DT. 28.03.2017**

**Date : 28.03.2017 (Tuesday)**  
**Time : 2:30 PM**  
**Venue : SLDC Building**  
**Minto Road, Opp. MCD Civic Centre,**  
**New Delhi-110002**

**1.0 Confirmation of minutes of OCC meeting dated 28.02.17.**

An OCC meeting was held on 28.02.17 in accordance with the agenda circulated vide letter dt. 22.02.17. Minutes of the aforesaid OCC meeting were issued vide letter dt.09.03.17.

**Members may like to confirm the same.**

**2.0 DTL Agenda points**

**2.1 Minutes of 6<sup>th</sup> Protection Sub Committee meeting to be incorporated as agenda point in OCC meeting for follow up for cable laying and termination by respective O&M sub station incharge.**

**Agenda points of SLDC**

Delhi SLDC in its agenda apprized that a meeting regarding transmission system works issues was held on 22.02.2017 and it was chaired by Secretary (Power), GNCTD.

It was apprized that during the meeting chaired by Secretary (Power) it was decided that in order to avoid system collapse a Special Protection Schemes (SPS) shall be configured on all the key elements such as SOW lines, Harsh Vihar- Patparganj cable, etc. All the finalized SPS shall be made functional before onset of summer months.

SLDC also informed that a meeting regarding Load Flow Studies of DTL network at anticipated load 6600MW was carried out in co-ordination with Distribution licensees and Generating stations held on 10.02.17 in SLDC Building.

1. It was observed during the above meeting that the following 220kV Transmission Lines is not fulfilling the (n-1) criteria:

S.No	Name of the Circuit	Loading at the time of Peak Demand in 2016 (MW)	Anticipated Loading in 2017 (6600MW)	Remarks
1	220kV Bamnauli-Papankalan-I ckt-I	187	194	
2	220kV Bamnauli-Papankalan-I ckt-II	162	194	
3	220kV Bamnauli-Papankalan-II ckt-I	154	166	
4	220kV Bamnauli-Papankalan-II ckt-II	150	166	

5	220kV Bawana-Rohini-I ckt-I	160	166	
6	220kV Bawana-Rohini-I ckt-II	137	166	
7	220kV Ballabgarh-BTPS –I	131	148	
8	220kV Ballabgarh-BTPS –II	131	148	
9	220kV Mandola-Gopalpurckt –I	176	188	
10	220kV Mandola-Gopalpurckt –II	179	188	
11	220kV BTPS-Mehrauli-I	80	139	
12	220kV BTPS-Mehrauli-II	80	139	
13	220kV Mundka-peeragarhi-I	113	139	
14	220kV Mundka-peeragarhi-II	144	139	
15	220kV Mundka-Najafgarh	138	165	
16	220kV BTPS-Okhla-I	161	168	
17	220kV BTPS-Okhla-I	161	168	
18	220kV Pragati-Parkstreet-I	113	137	
19	220kV Pragati-Parkstreet-II	141	137	
20	220kV Mandola-Wazirabadckt -I	186	179	
21	220kV Mandola-Wazirabadckt –II	171	179	
22	220kV Mandola-Wazirabadckt –III	184	179	

2. Following Transformers at DTL substations are not fulfilling the (n-1) criteria:

S.No	Name of the GRID	Loading at the time of Peak Demand in 2016 (MW)	Anticipated Loading in 2017 (6600MW)	Remarks
1	Bamnauli(2*315 & 2*500)	1125	1140	
2	Maharanibagh(2*100 & 2*500)	900	1010	
3	Mundka(3*315)	527	705	
4	Narela (3*100MVA)	211	230	
5	Rohini-I(4*100MVA)	304	327	
6	Wazirpur(2*100MVA)	143	156	
7	Kanjhawala	121	132	
8	Najafgarh(4*100MVA)	272	297	
9	Papankalan-I(2*100MVA & 2*160MVA)	355	382	
10	Papankalan-II(2*100MVA & 2*160MVA)	304	325	
11	Okhla(2*100MVA & 2*100MVA)	308	321	
12	Geeta colony(2*100MVA)	106	116	
13	Parkstreet(2*100MVA & 2*100MVA)	251	273	
14	Sabjimandi(2*100MVA)	161	176	
15	IP station(3*100MVA)	232	250	

The following points were discussed in the said meeting in respect of the above constraints:

- (i) To take care of any eventuality, certain protection methodologies may be adopted by Protection Deptt. So that at the cost of small load relief the other connected system can be saved.
- (ii) In the meeting , it is opined that All transformers should be allowed to load up to full rated capacity .To avoid tripping of other transformer due to tripping of any of the transformer at critically loaded substation like Papankalan-I , park street , Najafgarh ,Rohini-I ,Narela ,Wazirpuretc should be provided with special Protection scheme and load will be identified by protection department in co-ordination with Discoms.  
Discoms were requested to identify the 66kV/33 circuits for implementation of such Protection Schemes.

### **The Observations of the committee**

*The Committee deliberated the above agenda points in detail considering each to case of the transmission line and transformers identified by the SLDC. DTL Protection Department informed that these are not Protection schemes and in fact automatic Operational Load management solutions need to be provided. In consultation with the respective DISCOMs, 66KV & 33KV feeders were identified to automatically switch them off by operational tripping Solutions (OTS) configured in the relays in case of possible overloading due to tripping of the identified lines and transformers so as to avoid cascaded tripping of other elements in order to save the remaining healthy system from collapse.*

*DTL Protection department also informed that since the primary solution is having N-1 criteria, but operational load management solutions can be implemented to reduce the chances of cascaded tripping. There are no standard solutions and utilities implement the solutions on case to case basis.*

*It was decided that the loading limit for operation of the scheme in case of 220KV lines having Zebra Conductor to be considered as 700 Amps. It was discussed that such an scheme to be worked out so that tripping command of 66KV,33KV feeders&11kv incomers can be given in stages so as to disconnect the load before the parallel over loaded up- stream feeder/transformer over current relay initiate trip command on over current protection. BYPL apprised most of the feeders at SOW are critical and desired load relief may not be achieved on tripping of any of the fully loaded Mandaula-SOW Ckt. DTL Protection suggested that for these feeders the load shedding can be achieved by tripping of feeders at Geeta Colony through spare codes available in the Digital Tele-Protection Scheme.*

The feeders identified by the DISCOMs for disconnection in case of such scenario for the following specific transmission lines/transformers are as under:-

TRANSMISSION LINES

S.No	Name of the Circuit	66/33 kV Feeders which can be switched off during the exigencies.
1	220kV Bamnauli-Papankalan-I ckt-I & ckt-II	66kV BindapurCkt-I & II 66kV BudhelaCkt-I & II
2	220kV Bamnauli-Papankalan-II ckt-I & ckt-II	66 kV Hastsal and Local Transformers.
3	220kV Bawana-Rohini-I ckt-I & ckt-II	The TDDPL representative informed that TDDPL shall inform after consultation with the TDDPL system Operation.
4	220kV Ballabgarh-BTPS –I & II	The committee has decided during the exigency at Ballabgarh-BTPS –I &–II. The 66 kV Batra ,66 kV Tuglakabagh and local transformers shall be switched off from 220 kV Okhla grid.
5	220kV Mandola-GopalpurCkt –I	The TDDPL representative informed that TDDPL shall inform after consultation with the TDDPL system Operation.
6	220kV BTPS-Mehrauli-I & II	Scheme is already commissioned. Tripping of 66kV Malviya Nagar –I & II and 66kV C dot-I & II for reliability of DIAL supply and to avoid isolation of BTPS from Bamnauli when the system is interconnected.
7	220kV Mundka-Peeragarhi-I & II	The committee has decided to take load on the U/G cable up to maximum capacity.
8	220kV Mundka-Najafgarh	2 nos Local Transformers, 66kV Nangloi ,66 kV Jafarpur
9	220kV BTPS-Okhla-I & II	The committee has decided during the exigency at Ballabgarh-BTPS –I &–II. The 66 kV Batra ,66 kV Tuglakabagh and local transformers shall be switched off from 220 kV Okhla grid.
11	220kV Pragati-Park street-I	33 kV Motia khan, 33 kV Faiz Road, 33 kV Prasad Nagar and 66 kV School Lane. In case of the emergency the NDMC shall shift the load.
12	220 kV Manduala-SOW-I,II,III and IV running parallel	66 kV Shastri Park at SOW and all 33kV feeders at Geeta colony.
13	220kV Ridge valley- Naraina	Scheme is already commissioned.Tripping of 33kV Inderpuri –I and II in Stage -1 and 220kV Bus Coupler in Stage –2 to avoid overloading of Ridge-Valley cable when Maharani Bagh and Bamnauli supply are interconnected through this link.

TRANSFORMERS

	Name of the GRID	Remarks
1	Bamnauli(2*315 & 2*500)	Manual Load management by SLDC.
2	Maharanibagh(2*100 & 2*500)	Manual Load management by SLDC.
3	Mundka(3*315)	Manual Load management by SLDC.
4	Narela (3*100MVA)	Manual Load management by SLDC.
5	Rohini-I(4*100MVA)	Manual Load management by SLDC.
6	Wazirpur(2*100MVA)	Manual Load management by SLDC.
7	Kanjhawala	Manual Load management by SLDC.

8	Najafgarh(4*100MVA)	Manual Load management by SLDC.
9	Papankalan-I(2*100MVA & 2*160MVA)	Manual Load management by SLDC.
10	Papankalan-II(2*100MVA & 2*160MVA)	Manual Load management by SLDC.
11	Okhla(2*100MVA & 2*100MVA)	66 kV Batra Feeder
12	Geeta colony(2*100MVA)	Manual Load management by SLDC.
13	Parkstreet(2*100MVA & 2*100MVA)	Manual Load management by SLDC.
14	Sabjimandi(2*100MVA)	33 kV Bus Coupler to be kept open
15	IP station(3*100MVA)	Manual Load management by SLDC.

**The Committee suggested that the scheme should be implemented by 30<sup>th</sup> of April 2017. It was decided that the scheme will be configured in the respective Numerical relays by Protection Department. but the wiring from the 220KV Panel to 66 /33KV feeder panels is to be laid and terminated by respective Sub-Stn In-charge where these scheme are to be implemented.**

**The committee decided that the issue may be included in the agenda of the next OCC Meeting for follow up to ensure cable laying and termination by the respective Sub-station In-charge.**

**DTL O&M-I/II and SLDC may deliberate**

## 2.2 Disturbance occurred in Delhi system on 20.03.2017 at 10.20hrs.

### Incident:

On 20.03..2017 at 10.20hrs 220kV Bus Bar protection operated at 400kV Samaypur S/Stn. of BBMB. This led the following trippings .

- i) 220kV Ballabgarh – SamaypurCkt-I, II & III
- ii) 220kV BTPS – BallabgarhCkt-I & II
- iii) 400/220kV 315MVA ICT-II & IV at Ballabgarh (PGCIL)

Tripping of 220kV BTPS - BallabgarhCkt-I & II caused the overloading of 220kV BTPS – Alwarckt and supply failed at BTPS end at 10.30hrs. 220kV Bus coupler at Mehrauli tripped on over current.

The above tripping caused complete supply failure at 220kV Okhla, 220kV Gazipur & 220kV Vasant Kunj S/Stn.

### Normalization

System was normalized by closing 220kV Bus coupler at 220kV Mehrauli S/Stn. at 10.31hrs and supply extended to BTPS.

Sr. No.	Name of Element	Time		Remarks
		Out	Restoration	
1	220kV BTPS-Noida-GazipurCkt.	10.20	10.49	Supply failed
2	220kV BTPS-Okhlact. I & II	10.20	10.59	Supply failed
3	220kV BTPS-Ballabgarhckt. I	10.20	11.02	Bus bar operated at Samaypur (BBMB)

4	220kV BTPS-Ballabgarhckt. II	10.20	11.39	Bus bar operated at Samaypur (BBMB)
5	220kV BTPS-Alwarckt.	10.24	13.44	Supply failed
6	220kV Bus coupler at Mehrauli	10.22	10.31	Tripped on O/C
7	220kV BTPS-Mehraulickt. I & II	10.20	10.31	Supply failed

**Details of ckt.tripped due to operation of SPS**

Name of the Grid	Time		Load in MW
	From	To	
<b>220kV Mehrauli</b>			
66kV Malviya Nagar Ckt-I&II	10.22	10.28	34
66kV C-DotCkt-I& II	10.22	10.29	28
<b>Total (in MW)</b>			<b>62</b>

**Details of load affected:**

Time (Hrs)		Load affected in MW	Name of the Grid
From	To		
<b><u>BRPL</u></b>			<b><u>220kV MEHRAULI</u></b>
10:20	10:25	21	MALVIYA NAGAR CKT-2
10:20	10:30	10	IGNOU
10:20	10:25	7	IGNOU TO MALVIYA NAGAR CKT
10:20	10:30	28	CDOT CKT-1 & 2
			<b><u>220kV VASANT KUNJ</u></b>
10:32	10:35	9	66KV PALAM
10:32	10:36	38	VKJ C BLK CKT-1 & 2
			<b><u>220kV OKHLA</u></b>
10:28	10:30	27	MALVIYANAGAR
10:28	10:50	21	BATRA
10:28	10:48	19	OKHLA PH-1
10:28	11:05	10	PTR NO-1 & 2
10:28	10:46	5	MCIE(PTR NO-1)
10:28	10:44	10	BALAJI ESTATE
10:28	11:06	6	EAST OF KAILASH (PTR NO-3)
10:28	11:05	10	EAST OF KAILASH (PTR NO-1&2)
10:28	10:40	10	NEHRU PLACE(PTR NO-1&2)
10:28	10:55	7	NEHRU PLACE(PTR NO-3)
10:28	11:05	13	NEHRU PLACE(PTR NO-4)+VSNL
10:28	11:10	4	ALAKHNANDA(PTR NO-2)
10:28	10:42	6	ALAKHNANDA(PTR NO-1&3)
10:28	11:05	17	TUGHALKABAD
<b><u>BYPL</u></b>			<b><u>220kV GAZIPUR</u></b>
10:30	10:36	9	DALLUPURA
10:30	10:36	9	MAYUR VIHAR-2
10:30	10:36	4	NEW KONDLI
10:30	10:36	9	MAYUR VIHAR-1
10:30	10:36	8	KONDLI
10:30	10:34	7	PPG IND AREA
10:30	10:35	10	CBD-2
10:30	10:35	24	G T ROAD
10:30	10:45	5	11kV LOAD

**DTL (Protection deptt.), SLDC and BTPS may deliberate**

### **2.3 Tripping of 100MVA Tr.-II at 220kV Sub-stnWazirpur on dt.-21.03.2017,00:07 hrs.**

It has been noted that 100MVA Tr.-II at 220kV Sub-stnWazirpur tripped on dt.-21.03.2017,00:07hrs.resulting load shedding.

**DTL(O&M/Prot),TPDDL may deliberate.**

### **2.4 Storage of scrap material by BRPL Najafgarh at the common road at 220kV DTL Substation Najafgarh**

It was informed by Mgr(O&M), DTL (N-3&5) that BRPL Najafgarh is using the common road from Main Security Gate (at Main Road) to Security Gate at DTL 220kV Najafgarh Substation Security Gate which is creating the hindrance to men and material of DTL and common public at large too. The problem enhances and get gruesome when general public park their vehicles while visiting the BRPL Office encroaching the corridor. It can also not be ruled out that in case of major chaos, if any fire breaks out at DTL installation at Najafgarh or similar exigency, fire tenders/emergency vehicles may not be able to enter the premise due to space crunch created by storage of damaged & old scraps in the form of LT transformers, electrical poles and also due to parking of vehicles by general public. It was further informed that the matter was also followed up with the then BRPL officers but no action in this regard have been taken so far. An urgent and favourable action is required for vacating the common road by removing the old scraps in the form of LT transformers and Electrical Poles.

During the OCC meeting dt.-28.11.2016, OCC advised BRPL that matter be looked into and resolve the issue raised by DTL in the interest of Grid O&M activities and safety of public.

During the OCC meeting dt.-29.12.2016, it was informed by DTL that nothing remarkable has been done by BRPL. OCC advised that the matter be looked into by BRPL on priority basis in the interest of Grid O&M activities and safety of public. BRPL assured for the same.

During the OCC meeting held on 30.01.2017, it was informed by BRPL that 13 nos. Transformers will be removed within one week and rest will be removed in near future. OCC advised that the matter be expedited. BRPL assured for the same.

During the OCC meeting held on 28.02.2017, it was informed by DTL that despite of several assurance, nothing has been done by BRPL regarding shifting of transformers. BRPL again assured that 20 nos. Transformers will be removed within one week and rest will be removed in near future. OCC advised that the matter be expedited in the interest of Grid O&M activities and safety of public. BRPL assured for the same.

**DTL(O&M) and BRPL may update the status.**

### **3.0 SLDC Agenda**

1. While reviewing the Transmission constraints in BRPL area on 12.01.2017 by Secretary(Power), GNCTD, the issue of augmentation of 20MVA Transformers at Pappankala-I and Najafgarh was also discussed. The extracts of the MOM are as under:

#### **ix) Augmentation of 20 MVA Transformers at Papankalan-I and Najafgarh S/Stn of DTL**

BRPL informed the meeting that in 220 kV Papankalan-I area they have to resort to load shedding as the source of this sub-station of DTL gets overloaded. DTL informed that they are looping in and looping out single circuit of



BamnauliNaranina220 kV line at Papankalan-I as a temporary measure till the 400kV Dwarka S/Stn. is commissioned by PGCIL. This LILO will provide relief to the existing overloaded infeed and a new 160MVA Transformer shall also be commissioned at Papankalan I S/Stn. by March, 2017. BRPL requested that 20 MVA Transformer also needs to be upgraded to 31.5MVA as the present transformer gets overloaded. DTL asked BRPL to provide 31.5 MVA transformer on loan basis and they will replace the 20MVA by 31.5 MVA before summer of 2017. Similar request was made by BRPL for 220kV Najafgarh S/Stn. also and it was decided that DTL and BRPL shall work out the arrangement mutually and these two transformers shall be augmented by March, 2017.

OCC may discuss the further course of action by BRPL.

- 2 While going through the proceedings of Steering Committee meeting held on 06.10.2016, the following was observed:-

S N.	Name of 400/220 kV S/Stns.	Details of non utilization of bays				
		Voltage level	Name of bay	Name of the utility to whom the bay is allocated	Original allocation date	Present status
1	220kV Trauma Centre	33kV	Sarojini Nagar	NDMC	19.11.09	Sarojini Nagar S/stn.is under construction and expected by 2018-19. In the meantime, to utilize the bay, the bay is temporarily allocated to BRPL to accommodate NDSE-II as decided in the Steering Committee meeting held on 06.10.2016.
			JorBagh		19.11.09	90% work has been completed. Work is held up due to non availability of cables which is being arranged on priority basis. Expected by March 2017.

			Safdarjung Hospital	19.11.09	<p>At present supply is met through 11kV System. Due to increase in load due to redevelopment of the Hospital complex, the supply is proposed to be given at 33kV Level. After the establishment of the new complex at Safdarjung, the existing complex will be demolished and would be renovated and necessary space would be provided by Hospital authority to NDMC for establishment of 33kV S/Stn. However, temporary load would be given by March 2017 for occupation of newly constructed buildings. The sub station expected to be commissioned by 2018-19. In the meantime, to utilize the bay, the bay is temporarily allocated to BRPL to accommodate HUDCO as decided in the Steering Committee meeting held on 06.10.2016.</p>
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			Race Course		17.06.11	Sub-station is already in existence and is now been fed from Ridge Valley and Park Street. Due to load constraints at Park Street another feed from AIIMS 220kV S/Stn. is planned. The same can be made after cable link is established and load would be met from AIIMS. The cable link is expected by March 2017.
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BRPL may provide the further course of action.

#### 4.0 BTPS Agenda

##### Sub:- Prior intimation for running BTPS units.

BTPS have informed that Delhi Pollution Control Committee, through letter Ref. DPCC/WMC-II/BTPS/2015/313-376 dated 6.11.2016 and its addendum dated 16.11.2016 issued directions under section 31(A) of Air Act 1981 for closure of all the units of BTPS. As per the directives all the units have been stopped since 07.11.2016 and till date no unit is running. In this regard they want to state that:

1. Overhaul of BTPS Unit no # 4 & 5 which were due, were carried out in the period of station shutdown. But, as the units could not be lit up due to restriction imposed by DPCC, some actions like Safety valve floating & Electrical testing couldn't be done. For carrying out these jobs, external agencies who were involved in the overhaul, are to be called for which at least one week time is required for their mobilization.
2. For completion of safety valve floating & Electrical testing 2x210 MW units are to be kept in light up condition around 30 hrs, after which units can be synchronized with grid. So, for synchronization of each 210 MW units around 30 hrstime would be required.
3. As the 3x95 MW units are not taken on bar for around 2 years, for synchronizing these units around 24 hrstime will be required.

Considering the fact, BTPS Units would be required in the forthcoming summer months.

When the demand will be high, BTPS have requested SLDC to give the prior intimation accordingly, so that units can be taken on bar smoothly, as per the requirement of SLDC.

Clearance letter of DPCC issued to BTPS is enclosed as Annexure.

**BTPS and SLDC may deliberate.**

**5.0 PPCL Agenda**

**Sub- UI Waiver for Tripping on Dt. 08.03.2017**

PPCL have informed that GT#4 & STG#2 tripped at 14:12 hrs due to disturbance in grid and the same was informed to SLDC vide message no.1231/2-24 dated 08.03.2017 at 14:20 hrs requesting for UI waiver.

RTAMC has also informed vide message no. 1235/73 at 16:55 hrs on dated 08.03.2017 confirming disturbance in 400KV Mundka –Bawana line due to earth fault that resulted into neutral current of 264 amps. The Backup Standby Earth Fault protection of all 4 Transformers namely GT#2, GT#3, GT#4 & STG#2 sensed the fault & tripped after time delay of 3 Sec on Standby Earth Fault protection. This resulted into tripping of GT#4 and STG#2 and generation loss of 250 MW and UI penalty due to under injection (Gen loss of approximately 0.208 MUs)

Since the fault initiated from 400 KV line and that ultimately resulted into the tripping of transformers and caused Generation loss to PPCL, for no in plant deficiency. Hence the tripping could not be attributed to the account of PPCL Bawana. Hence the request for UI waiver till normalization of Generation as per Schedule is justified and may be accepted.

PPCL have requested to waive off the UI w.e.f. 14:12 hrs till synchronization of GT#4.

GT#4 was synch at 15:35 hrs and STG#2 synchronized at 17:04 hrs.

**PPCL and SLDC may deliberate.**

**6.0 Delhi MSWSL Agenda**

Delhi MSWSL have informed that they are facing lot of interruptions for running of their plant during last two months as per details given below. They have requested to arrange the remedial measures at the earliest possible.

Tripping of their TIE and TG breaker with DTL distrubance in GRID				
Sr.no	DATE	TIME	REASON	REMARKS
1	1/3/2017	12:50 PM	Main steam pressure low	TG tripped
2	4/3/2017	10:45AM	jurk came from grid side (plant running)	TG running
3	6/3/2017	2:25AM	Huge jurk came from grid side (plant running)	TG running
4	7/3/2017	2:25 PM	Manually trip due to Generating transformer maintenance	TG tripped
5	8/3/2017	3:21PM	Main steam pressure low	TG tripped
6	11/3/2017	5:45 PM	Main steam pressure low	TG tripped

7	13/3/2017	3:45 AM	TIE breaker open due to DF/DT .At the same time TG breaker open due to( V/HZ). <b>Tie breaker realy tripping:-</b> df/dt start 1, df/dt trip, IA= 105.3, IB= 109.5, IC=115.8 , VAB= 72.57kv, VBC= 72.30kv, VCA= 71.72kv, IN measure = 1.731A, IN Derived = 1.754A, VAN= 41.60kv, VBN = 41.97kv, VCN= 41.47kv. <b>GPR tripping:-</b> power start =2 , power trip=2 , over fluxing start =V/HZ>1 , over fluxing trip , V<voltage start V<12 AB BC CA , V<voltage trip V<12 AB BC CA , under frequency start F<1,2 under frequency Trip F<1,2.	TG tripped
8	14/03/2017	10:58AM	TIE breaker open due to DF/DT. <b>Tie breaker realy tripping:-</b> df/dt start 1, df/dt trip , IA= 105.3 , IB= 109.5 , IC=115.8 , VAB= 72.57kv, VBC= 72.30kv , VCA= 71.72kv , IN measure = 1.731A, IN Derived = 1.754A ,VAN= 41.60kv , VBN = 41.97kv , VCN= 41.47kv.	TG running
9	14/03/2017	22:24 PM	TiEBreker Open due to df/DT.TieBreker relay tripping :- df/dt starts ,df/dt trips,IA=144.34,IB=148.7,IC=154.6,VAB-69.58,VBC-69.22,VCA-68.91,IN mesured =2.716A,IN derived -2.694 A,VAN-39.36 KV,VBN=40.18 Kv,VCN=39.78 KV	TG tripped
10	19/03/2017	16:36 PM	Tie breker Open due to df/DT.TieBreker relay tripping :- df/dt starts ,df/dt trips,IA=544.9,IB=583.6,IC=557.9,VAB-59.61,VBC-61.66,VCA-61.25,IN mesured =10.61A,IN derived -10.48 A,VAN-34.63 KV,VBN=34.92 KV,VCN=35.82 KV	TG tripped

## 7.0 EDWPCL Agenda

EDWPCL have informed that there was a blackout situation at 220/66 DTL Ghazipur substation on dt. 20.03.17 from 10:30am to 10:45am (Possible cause was under voltage due to failure of BTPS line). In this case they were not able to export the power in the grid. They have also requested to expedite the implementation of synchronising 66 kV system at Ghazipur substation by the operational staff, since the trial operation has already been carried out successfully by DTL.

## 8.0 Proposed Planned Shutdowns

### 8.1 Proposed shutdowns of O&M, DTL

DTL, O&M deptt.has proposed the planned shutdowns for the month of April 2017 as per enclosed Annexure.

**OCC may deliberate.**

## 9.0 Long/Recent outage of Elements in Delhi power system.

Members to update the status of following Long/Recent outage of Elements in Delhi Power system:

*Agenda for OCC meeting dt.-28.03.2017*

S. No.	Element's Name	Discom/ DTL	Date and Time of outage	Remarks/Status as on 23.03.2017
1.	33kV BAY -3 (IP – Kilokri)	BRPL	22.02.11	Clearance from Railways for laying of Underground cables near Bhairon Road is pending. OCC advised BRPL to inform DTL after awarding of the said work. During the OCC meeting dt.-28.11.2016, It was deliberated that the above work shall be started after joint inspection with Railways.
2.	33kV RIDGE VALLEY - KHEBAR LINE CKT.-II	BRPL	31.01.16	R-Ph single cable faulty
3.	33kV IIT-JNU Ckt.	BRPL	27.11.16	CT problem
4.	20MVA PR.TR.-I AT BATRA	BRPL	15.02.2017	Under Shutdown
5.	66kV VASANT KUNJ INSTL.AREA-RIDGE VALLEY CKT.-II	BRPL	05.03.2017	Y-Ph single cable faulty
6.	66kV VASANT KUNJ INSTL.AREA-RIDGE VALLEY CKT.-II	BRPL	05.03.2017	Under Breakdown on other Single cable.
7.	33kV I/C-I AT RIDGE VALLEY	BRPL	08.03.2017	Put off due to breaker problem.
8.	20MVA PR.TR.-I AT DEFENCE COLONY	BRPL	21.03.2017	Under Shutdown.
9.	33kV RIDGE VALLEY - R.K. PURAM -I CKT.	BRPL	22.03.2017	B-Ph single cable faulty
10.	33kV ROHTAK ROAD - MADIPUR CKT.	BRPL	28.05.16	CABLE FAULTY.ROAD CUTTING PERMISSION AWAITED FROM PWD.
11.	66kV SAGARPUR - REWARI LINE CKT.	BRPL	30.07.16	'B' PH. CABLE FAULTY. RE-ROUTING BEING DONE.
12.	66kV BUS COUPLER AT G-15 DWARKA	BRPL	22.11.2016	CT Blast.
13.	66KV PPK-II – G-5 MATIALA CKT.-II	BRPL	21.01.17	R-PH CABLE FAULTY
14.	20 MVA Pr. Tr. –II at G-5 Matiala	BRPL	12.02.17	UNDER SHUT DOWN
15.	33kV Subji Mandi (220kV)- B.G. Road Ckt.-I	BYPL	09.01.17	Single Cable faulty. Cable end box for GIS under procurement.
16.	33KV PANDAV NAGAR - DMS CKT.	TPDDL	03.04.16	PROBLEM IN RMU.

17.	33kV JAHANGIRPURI-SANJAY GANDHI TR. NGR CKT-I	TPDDL		R-PH CABLE FAULTY
18.	66KV S.G.T.N.(GIS) - PP 1 CKT.-1	TPDDL		Y-PH CABLE FAULTY
19.	33kV SHLALIMAR BAGH - WAZIRPUR-II KT-II	TPDDL	07.03.2017	B-PH CABLE FAULTY
20.	66kV ROHINI SEC.-28- ROHINI-VI CKT.-II	TPDDL	08.03.2017	R-PH CABLE FAULTY
21.	66kV ROHINI SEC.-28- ROHINI-VI CKT.-I	TPDDL	22.03.2017	Y-PH CABLE FAULTY
22.	315MVA ICT-1 at 400kV Bawana	DTL	11.12.16	Tr. Damaged due to fire. Tr. replacement under progress.
23.	100MVA Tr.-2 at Geeta colony	DTL	01.12.16	Transformer faulty and the same is being replaced. Expected by 25.04.17.
24.	400kV BAMNAULI - JHAKTIKARA CKT.-I	DTL	22.05.16	Dead end Tower No.-169 along with gantry collapsed at Bamnauli end. Ckt.-II charged on ERS. Order placed. Expected by 30.04.17.
25.	220/66kV 100MVA PR.TR.-III AT 220kV PPK-I	DTL	04.09.16	HV SIDE 'Y' PH. WINDING DAMAGED. TO BE REPLACED WITH 160 MVA TR. AT KANJHAWALA. EXPECTED BY 10.04.17.
26.	220/33kV 100MVA PR.TR.-II AT 220kV PARK STREET	DTL	11.09.16	The transformer have been put Off due to rise in oil temperature and it will be replaced by the transformer at 220kV Pappankalan-I. Expected by 10.04.2017.
27.	220/33kV 100MVA PR.TR.-I AT 220kV WAZIRPUR	DTL	19.10.16	Tr. Tripped on Differential and Buchholz. Internal inspection has been carried out and the transformer being sent to OEM for repair. The third 100 MVA Tr. of PreetVihar Sub-stn is to be diverted to Wazirpur. Expected by 30.04.2017.
28.	220kV Maharani Bagh-Ghazipur Ckt.-1 & 2	DTL	08.12.16	Shutdown availed by PWD till March 2017 for construction of extended portion of Barapullah flyover.
29.	220KV MEHRAULI - DIAL CKT.-I AT DIAL END	DTL	27.02.17	CABLE PORTION DAMAGED. 220kV BAMNAULI - MEHRAULI CKT.-I MADE THROUGH WITH T-OFF AT 220kV DIAL CKT.-I
30.	220KV PATPARGANJ - GAZIPUR CKT.	DTL	07.03.17	CABLE DAMAGED. ALL CABLES HAVE FURTHER BEEN DAMAGED BY NHAI.
31.	100MVA PR.TR.-II AT 220kV LODHI ROAD ALONG WITH 220kV MAHARANI BAGH-LODHI ROAD CKT.-II	DTL	22.03.17	TRIPPED ON DIFFERENTIAL, PROTECTION AND BUCHLOZ RELAY.

**Thank You**  
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