

**DELHI TRANSCO LIMITED**

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

**AGENDA FOR DELHI OCC MEETING NO. 11/2023-24**

**Date** : **21.02.2024**  
**Time** : **11:00 A.M**  
**Venue** : In O/o-GM(O&M)-I, Delhi Transco Ltd.,  
220 KV Sub-Stn Park Street Building,  
New Delhi-110001

**1. Confirmation of minutes of 10<sup>th</sup> OCC meeting (2023-24) held on 24.01.2024.**

The 10<sup>th</sup> Delhi OCC meeting (2023-24) was held on 24.01.2024 physically in the O/o GM(T)O&M-I in accordance with the agenda circulated vide letter dt:15.01.2024. Minutes of the OCC meeting were issued on 25.01.2024 and were uploaded on DTL website ([http://dtl.gov.in/Content/369\\_1\\_OCC-Meeting2024.aspx](http://dtl.gov.in/Content/369_1_OCC-Meeting2024.aspx)).

**(OCC may deliberate)**

**2. DTL Agenda: Proposed planned shutdowns for the month of March-2024.**

Proposed planned shutdowns for the month of March -2024 (Annexure-I).

**(OCC may deliberate)**

**3. BBMB Agenda: Regarding shutdown on 220KV extended Bus at Narela**

There is Mechanical operation problem in isolators on 220 kV bus 1&2 at 220 kV Narela. Kindly allow Shutdown of 220 kV Bus-I on 21.03.2024, 09:00 hrs to 17:00 hrs and Shutdown of 220 kV Bus-II on 22.03.2024, 09:00 hrs to 17:00 hrs

**(OCC may deliberate)**

**4. SLDC Agenda:**

**Automatic Demand Management System (ADMS) Implementations in Delhi.**

In 5<sup>th</sup> Delhi OCC meeting held on 24.08.23, Implementation of ADMS was deliberated and OCC directed that ADMS has to be implemented as per IEGC regulation. Further advised all DISCOMs to explore logic inputs required to implement ADMS in Delhi and shall submit the detailed report in next OCC meeting for further discussion. In 211<sup>th</sup> NRPC OCC meeting held on 19.09.23, NRPC has enquired about the implementation status of ADMS in Delhi. Delhi Discoms are requested to give their inputs on implementation of ADMS in Delhi.

9<sup>th</sup> OCC Deliberation:- As per MOM of 70th NRPC and 48th TCC, frequency may be taken as 49.7 Hz for implementation of ADMS. OCC directed that as frequency has been finalized by NRPC, therefore GM SLDC should call a separate meeting with DISCOMs to finalize the process to be adopted for implementation of ADMS.

10<sup>th</sup> OCC Deliberation:- SLDC informed that ADMS was discussed in NRPC. MOM of the same is awaited. OCC chairman requested members to follow recommendation of NRPC in subject matter.

**(OCC may deliberate)**

**5. Long/recent Outage/breakdown of elements in Delhi power system.**

Members may update the latest status of following Long/Recent Outage/Breakdowns of elements in the Delhi Power system as under:

S. No.	Element Name	Utility	Date of Outage	Date of Restoration	Status of Outage
1.	66/11 kV 20 MVA-I Najafgarh	BRPL	22-12-23	To be replaced by BRPL	Under Breakdown
2.	66 kV PPK-2 to Matiyala Ckt-1	BRPL	15-01-2024		R Phase Cable Faulty
3.	66 kV Najafgarh to Bodella-2 Ckt-1	BRPL	09-02-2024		B Phase Single Cable Faulty
4.	66kV Gas turbine power to Akshardham temple	BYPL	23-08-2023		All Phase Cable Faulty
5.	33 kV Park Street to Tibia Collage Ckt-1	BYPL	03-02-2024		B Phase Single Cable Faulty
6.	33 kV PPG to Guru Angad Nagar Ckt-2	BYPL	08-02-2024		B Phase Single Cable Faulty
7.	66 kV Wazirabad to Yamuna Vihar Ckt-1	BYPL	09-02-2024		R Phase Cable Faulty
8.	33kV IP Bay-28-Connaught place	NDMC	17-08-2023		B Phase faulty
9	33 kV IP Bay- Electric Lane	NDMC	09-12-2023		B Phase faulty
10.	66 kV Mundaka to Mangolpuri-1 T-OFF Nangloi Ckt-1	TPDDL	18-01-2024		
11.	66 kV SMB to PP-1 Ckt-2	TPDDL	23-01-2024		
12.	66kV Park Street-DMRC CKT-I & II	DMRC	19-10-21	30-06-24	Shutdown for grid shifting work at DMRC end
13.	220kV PPK-1-Dwarka Ckt-II	DTL	05-11-23	29-02-24	Diff. R phase, Distance
14.	220 kV Maharani Bagh –Masjid Moth Ckt-II	DTL	29-01-23	31-03-24	Cable caught fire.
15.	220 kV Bamnauli-DIAL Ckt-II	DTL	31-01-23	31-03-24	R phase cable punctured by NHAI during digging work
16.	220/66 kV, 100MVA TX-II Park Street	DTL	07-06-23	29-02-24	Tx under B/D. replacement under process

**(OCC may deliberate)**

**Additional Agenda:****1. DTL Agenda: Approval of Shutdown of 220 KV Bus Bar-I & II at 220kV GIS Kashmere Gate for the work of Design, supply & ETC of 05 Nos. 220kV GIS Bays extension along with civil works at existing 220/33kV GIS S/Stn Kashmere Gate.**

The Schedule of Shutdown are as under:-

S.No	Activities	Element for shutdown	Tentative Duration of Shutdown
1	Preparation, Isolating link Installation, Bays Installation	220 KV Bus Bar-I	21.02.2024 to 01.03.2024 (10 Days)
2	Preparation, Isolating link Installation, Bay Installation	220 KV Bus Bar-II	02.03.2024 to 11.03.2024 (10 Days)
3	HV Testing (Test Sequence-1)	220 KV Bus Bar-I	(06 Days) Date will be confirmed after completion of activities at S.NO-01
4	HV Testing (Test Sequence-2)	220 KV Bus Bar-II	(06 Days) Date will be confirmed after completion of activities at S.NO-02
5	220 KV Bus Bar-1 Link Connection	220 KV Bus Bar-I	(03 Days) Date will be confirmed after completion of activities at S.NO-03
6	220 KV Bus Bar-2 Link Connection	220 KV Bus Bar-II	(03 Days) Date will be confirmed after completion of activities at S.NO-04

M/s. Siemens vide their letter ref. TSP EMU/DTL/KG Extn/RG/242 dated 15/02/2024 has submitted the revised Shutdown requirement schedule for 220 KV Bus Bar-I & Bus Bar-II GIS Interconnection work w.e.f 21/02/2024 at 220 KV S/Stn. Kashmere Gate.

(OCC may deliberate)

**2. BRPL Agenda: Addressing Frequent Outages of PPCL –III (Bawana Gas Plant)****1. Introduction:**

- PPCL -III (Bawana Gas Plant) is one of the largest and most efficient gas plant in the Delhi Power Portfolio.
- Its installed capacity is 1371 MW, with BRPL's share being 427 MW, and its crucial in ensuring uninterrupted power supply to consumers in Delhi/BRPL.

**2. Problem Statement:**

- It is observed that frequent tripping of Gas Turbines (GT) and Steam Turbine Generators (STG) of PPCL III is leading to repeated outages of running units.
- These outages are impacting the power arrangements in Delhi, causing sudden shortfalls and the risk of demand curtailment.
- Recent incidents and their implications for power scheduling and actual power delivery, as documented below and also mentioned in Annexure A and Annexure B respectively.
- This lead to uncertainties in scheduling and reduction in real-time availability resulting from these interruptions and outages causing potential power crisis situation for BRPL and the serious threats posed to maintaining uninterrupted power supply to consumers in the BRPL area.

**3. Communication from Ministry of Power:**

- Recent communication from the JS distribution, Ministry of Power (MoP) dated 26.12.2023 regarding the significance of uninterrupted power supply to end consumers.

- It emphasizes the steps, including ensuring adequate fuel supply to plants and mechanisms for fuel diversion from surplus to scarce plants.
4. Impact of Tripping during High Demand Period:
    - Current winter months & upcoming summer months are high demand period in the Northern Region (NR)
    - High demand situation is resulting in the unavailability of surplus power in contingency/peak periods from URS or Power Exchanges, emphasizing the criticality of maintaining Bawana's stability.
  5. Request for Intervention:
    - Request the OCC's intervention to ensure the highest level of reliability for PPCL-III (Bawana Gas Plant) at the earliest.
    - Emphasize the importance of maximum availability of all units during the critical winter conditions and the forthcoming peak summer season.
    - Seek continuous support from the OCC to ensure uninterrupted and stable round-the-clock power supply to esteemed consumers in Delhi.
  6. Prayer:
    - Timely and correct information about tripping and in turn expected revival time of the unit so that DISCOMS are not left in mid whether to wait for Bawana or to procure power from market in case of tripping of Bawana unit in real time.
    - Declare the event of 14-02-2024 as force majeure since schedule of Bawana was not changed as per timeline of IEGC 2023.

S. No	Date of Incident	Incident Description
1	06-02-2024	On 06.02.2024, at 10:12 hrs GT#2, GT#4, STG#1 and STG#2 tripped. BRPL was continuously following up with SLDC and Bawana for knowing the availability of Bawana and every time it was communicated to BRPL that the generation would revive soon since it is an electrical tripping. In view of this BRPL did not procure any power from intra day segment of power exchange. But, Bawana was able to bring back its generation only in a ramping mode from 21:00 hrs for half module and from 04:00 am of next day for another half module which was running exclusively for BRPL. Communication to SLDC attached as annexure 1
2	22-01-2024	Peak of BRPL in Winter 2024 touched on 22.01.2024. The increased load pattern on this day sustained for longer duration during morning hours. Based on day ahead planning, half module of Bawana SPOT was running (BRPL scheduling 250 MW and TPDDL scheduling approx 60 MW from it). However, half module in running in SPOT gas tripped at 11:00 hrs, resulting in creating a shortage of 250 MW for BRPL in real time. Further, despite repeated calls to Bawana and SLDC, no clarity was obtained regarding revival of the unit. Communication to SLDC attached as annexure 2
3	14-02-2024	Half module of Bawana in SPOT gas was running exclusively for BRPL from 06th Feb 2024 except NDMC scheduling approx 20-25 MW from it. Hence, BRPL was scheduling approx 280 MW from Bawana SPOT and ramping it down during off peak hours as per its requisition. On 14.02.2024, BRPL has requisitioned approx 240 MW from Bawana SPOT during morning peak hours i.e from 06:00 to 11:00 hrs. However, without informing BRPL on time and <b>without giving heads up of 7/8 slots as per</b>

		<p><b>IEGC regulations 2023</b>, Bawana has reduced its running DC from back time, impacting BRPL by approx 100 MW reduction in its schedule as against requisition. Screen shot of message from Bawana on web scheduling portal is attached for reference.</p> <p>This sudden change in DC of Bawana has resulted in BRPL over drawing from the grid in real time without any fault of its own and hence attracting higher DSM amount.</p> <p>Communication to SLDC attached as annexure 3</p>
4	22-05-2023	<p>On 22.05.2023, BRPL emailed SLDC to bring on bar specifically the open cycle generation of Bawana to meet its evening peak demand. However, Bawana denied BRPL request stating that the machines are only available in closed cycle mode. In view of this BRPL has to withdraw its request and have to arrange power alternately.</p> <p>Communication to SLDC attached as annexure 4</p>

(OCC may deliberate)

### 3. BYPL Agenda: Addressing Frequent Outages of PPCL –III (Bawana Gas Plant)

#### 1. Introduction:

- PPCL -III (Bawana Gas Plant) is one of the largest and most efficient gas plant in the Delhi Power Portfolio.
- Its installed capacity is 1371 MW, with BYPL's share being 247 MW, and is crucial in ensuring uninterrupted power supply to consumers in Delhi/BYPL especially in high demand months.

#### 2. Problem Statement:

- It is observed that frequent tripping of Gas Turbines (GT) and Steam Turbine Generators (STG) of PPCL III is leading to repeated outages of running units.
- These outages are impacting the power arrangements in Delhi, causing sudden shortfalls and the risk of demand curtailment for BYPL.
- This lead to uncertainties in scheduling and reduction in real-time availability resulting from these interruptions and outages causing potential power crisis situation for BYPL and the serious threats posed to maintaining uninterrupted power supply to consumers in the BYPL area.

#### 3. Communication from Ministry of Power:

- Recent communication from the JS distribution, Ministry of Power (MoP) dated 26.12.2023 regarding the significance of uninterrupted power supply to end consumers.
- It emphasizes the steps, including ensuring adequate fuel supply to plants and mechanisms for fuel diversion from surplus to scarce plants.

#### 4. Impact of Tripping during High Demand Period:

- Current winter months & upcoming summer months are high demand period in the Northern Region (NR)

- High demand situation is resulting in the unavailability of surplus power in contingency/peak periods from URS or Power Exchanges, emphasizing the criticality of maintaining Bawana's stability.

5. Request for Intervention:

- Request the OCC's intervention to ensure the highest level of reliability for PPCL-III (Bawana Gas Plant) at the earliest.
- Emphasize the importance of maximum availability of all units during the critical winter conditions and the forthcoming peak summer season.
- Seek continuous support from the OCC to ensure uninterrupted and stable round-the-clock power supply to esteemed consumers in Delhi.
- In recent 216 NRPC meeting held in Jaisalmer, the incident of grid disturbance on account of outage of Bawana on 31<sup>st</sup> Jan-24 and 6<sup>th</sup> Feb-24 which has led to significant load loss has been discussed and NRPC also advised to rectify any kind of shortcomings in the operation, maintenance and protection system and instructed for corrective action to avoid such multiple tripping.

(OCC may deliberate)

**4. TPDDL Agenda- Meeting regarding availability & stability of PPCL-3(Bawana CCPP) during the summer - 2024.**

At the outset, we would like to express our gratitude for the courtesy extended to us during our visit to PPCL Bawana plant and meeting on 15th February 2024 regarding the availability of PPCL Bawana plant.

As you are aware a greater reliance has been placed by Hon'ble Delhi Electricity Regulatory Commission (DERC) on PPCL Bawana to provide reliable power during coming summer months from April-24 to September-24. Pl find below the Excerpt from Petition No. 47/2023 in the matter of seeking approval for procurement of power on Short Term Basis by TPDDL

13. Rates discovered in the subject Petition for Peak Power and RTC for April '24 and May '24 is around Rs.9/kWh at NR periphery. Over and above said rates, various charges like Inter State Transmission Charges, Intra State Transmission Charges, SLDC charges, Operating Charges, Application fee, Transmission Losses etc. will be levied. Therefore, when such other charges are added to discovered price it is prime facie noted that Rate for Peak Power and RTC for April '24 and May '24 discovered will be more than ECR of PPS-I and PPS-III in Combined Cycle mode as these plants are directly connected to Delhi Grid.

Hence TPDDL and other Discom's may require to run this plant to full capacity specially to meet peak Summer Demand. Hence it is imperative that any maintenance or shutdown activity may be carried out prior to 1st April-24, so that plant is available in its full capacity in time of need.

It was informed by PPCL Bawana plant that all necessary tie-up are already available for fuel and would not place any constraint on this account. During the discussion it was informed that one unit (Gas turbine) and its associated steam generation may be required for

a planned shutdown of 18 days in April'24-May'24 depending upon time of availability of critical spares required for this unit.

TPDDL has communicated that any shutdown during this period may preferably be deferred beyond September-24 and due approval and concurrence of SLDC may be taken looking into the overall summer situation for Delhi. We appreciate the consideration and importance given to this fact and looking into the postponing of the shutdown to off peak period to avoid any inconvenience to the consumers of Delhi. In addition, as an exercise of due precaution, it would be prudent to run the units at the desired load condition for a short period of time (say 2-3 days) to ensure there are no surprises particularly since April and May is going to be a critical period with on-going Lok Sabha Elections. We will be making this request to SLDC.

We would like thank you and team PPCL for the positive commitment and assurance to run the units as per requirement based on load and jointly provide a reliable power supply to consumers of Delhi without any interruption.

(OCC may deliberate)

### On Table Agenda:

#### 1. **BRPL Agenda: Urgent Implementation of zone/section tripping scheme in new 33KV GIS and C&R panel installed by BRPL at 220KV Lodhi Road DTL for Kushaknallah O/G's:**

Requirement of SF6 Gas pressure low **indications** for Bus 1, Bus 2 and Breaker at newly installed 02 Nos. C&R panel by BSES at 220KV Lodhi Road DTL has been raised by DTL O&M team as per the trailing mail.

These extra 03 Nos. indications are to be installed at each panel. Since these C&R panels are and warranty may be the issue, hence these changes in the panel can only be incorporated by M/s popular service engineer.

Kindly arrange M/s Popular Service engineer for incorporation of SF6 Gas pressure low indications for Bus 1, Bus 2 and Breaker at newly installed 02 Nos. C&R panel.

**For verification of the Tripping Scheme (SF6 Low Gas Pressure), Shutdown of the Half Bus is required as discussed with DTL protection.**

PLANNED SHUT DOWN			
1	Name of the Feeder	:	33kV Half Bus Bar of GIS Panel Upto Bus Section 1 & 2 at 220kV Lodhi Road Station DTL
2	Time & Date of Shut Down	:	09:30 Hrs to 17:00Hrs dated -----.02.2024
3	Load Effected	:	Feeder listed below
4	Work to be Executed Under Shut Down	:	Implementation of zone/section tripping scheme in new 33KV GIS panels installed by BSES

(OCC may deliberate)

#### 2. **BRPL Agenda: Migration plan for JIO**

We are planning to install Jio links at DTL location.

This will help to resolve issues at respective locations:

1. Replace RCom 4G,
2. Have secondary link against single links

## 3. Data availability for STPMG for scheduling.

BRPL is requested to give necessary permissions for site feasibility check at following DTL locations. After that BRPL will submit pan for review in OCC to install tower, Wall mounted pole and roof top pole will be deployed as per line of site clearance.

S. No	LOCATION	PRIM. LINK	SECOND. LINK
1	220 PPK-2 Sector 16D,Dwarka (Near Sector 14 Metro station), NEW DELHI	Airtel	N/A
2	220 kV Najafgarh Grid	Sify	AIRTEL
3	220 kV Lodhi road DTL Grid	Airtel	RCOM 4G
4	220KV SARITA VIHAR DTL	RCOM 4G	N/A
5	220 kV VasantKunj DTL Grid-c9	Airtel	N/A
6	220 kV Okhla DTL Grid	Airtel	RCOM 4G
7	220 KV PPK 1 DTL Grid	Airtel	RCOM 4G
8	220 kvMehrauli DTL	Airtel	N/A
9	400/220KV Mundka,BSES,Neelwal Road, Near Vaishno Devi Mandir,04,NEW DELHI, Delhi, 110041, IN	Sify	Airtel
10	220KV,BSES,PPK3, Sector 19B,04,NEW DELHI, Delhi, 110071, IN	Sify	Airtel
11	220KV,BSES,DIAL, Panchvati Palam,04,NEW DELHI, Delhi, 110037, IN	Sify	Airtel
12	220KV,BSES,Sector 4, RK Puram,04,NEW DELHI, Delhi, 110022, IN	Sify	Airtel

On 22-12-23, During incident of fire broke out at 220KV NJF grid all 11KV O/G panels got damaged due to this Some panels were completely damaged and some are partially. DTL is requested to update the status of emergency restoration of panels in view of meeting summer 24 load.

Peak demand/load details are attached for your reference.

DTL 220KV Najfgarh station (Installed capacity)	Summer 22		Summer 23		Summer 24 (projected)	
	PTR	% Load	PTR	% Load	PTR	% Load
20 MVA PTR-1	1	56.2%	1	46.2%	1	66.12%
20 MVA PTR-2	2	86.3%	2	71%	2	96.3% (Critical)
20 MVA PTR-3	3	65%	3	75%	3	85% (Critical)
<b>Total- 60 MVA</b>						

(OCC may deliberate)



### 3. BBMB Agenda: 220KVNarela-R/Rd Ckt-I & II Shutdown requirement

In reference to above cited subject, shutdown was approved from 19.02.2024 to 24.02.2024 in February but due to Kisan Dharna shutdown was not availed.

So it is requested kindly provide consent for shutdown as per the schedule mentioned below:

Sr. No.	Shutdown Date and time	Element Name	Work to be done
1.	18.03.2024 to 20.03.2024 (09:00 hrs to 18:00 hrs on daily basis)	220KVNarela-R/Rd Ckt-I	installation of polymer insulators
2.	21.03.2024 to 23.03.2024 (09:00 hrs to 18:00 hrs on daily basis)	220KVNarela-R/Rd Ckt-II	installation of polymer insulators

It would be required to cut off the power supply of DTL substation of 220 kV Rohini-I during this period because DTL line is crossing 220KVNarela-R/Rd line at tower no. 1054-55 and 1052-53.

(OCC may deliberate)

### 4. BBMB Agenda: Regarding shutdown on 33KV Delhi ckt 1,2,3 & 4

In reference to above cited subject that shutdown is required on 33KV Delhi ckt. 1, 2, 3 and 4 for replacement of isolators, for 2 days on each ckt. on continuous basis.

So it is requested kindly approve the shutdown and intimate the schedule as per system availability.

(OCC may deliberate)

\*\*\*\*\*