

**GOVERNMENT OF INDIA**  
**MINISTRY OF POWER**  
**Eastern Regional Power Committee**

**AGENDA**  
**for**  
**159<sup>th</sup> PCC MEETING**

**Date: 18/06/2026**

**Time: 10:30 Hrs**

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**Eastern Regional Power Committee, Kolkata**

**Agenda for 159<sup>th</sup> PCC MEETING**

**Date: 18<sup>th</sup> June, 2026(Thursday) at 10:30 Hrs**

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**1. PART-A**

**1.1. Confirmation of Minutes of 158<sup>th</sup> PCC Meeting held on 12<sup>th</sup> May 2026.**

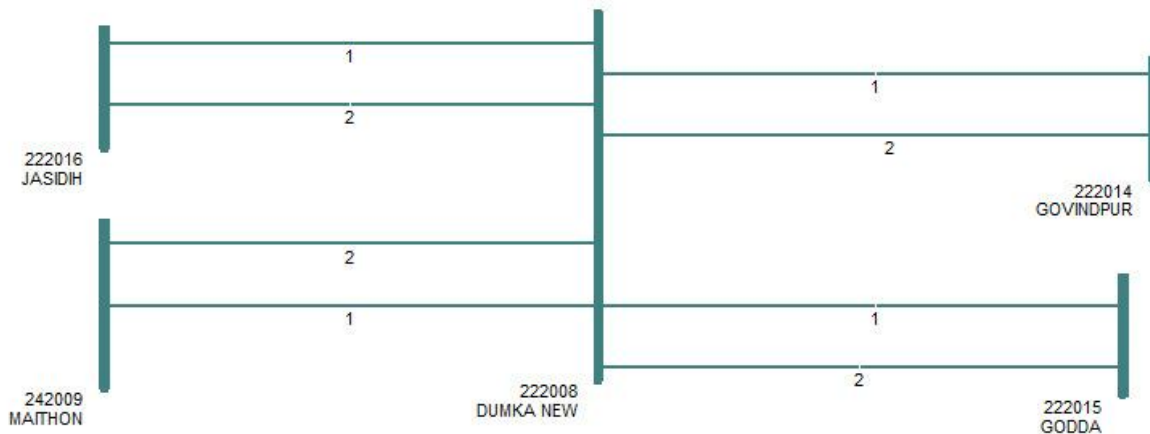
The minutes of 158<sup>th</sup> PCC meeting held on 12.05.2026 was circulated vide letter no. ERPC/Protection/2026/393 dated 20/05/2026.

**Members may confirm the minutes of 158<sup>th</sup> PCC Meeting.**

**2. PART-B: ITEMS FOR DISCUSSION**

**2.1 Total Power Failure at 220kV Dumka, Godda and Jasidih (JUSNL) S/s on 1st May 2026 at 22:33 Hrs**

On 01/05/2026 at 22:33 Hrs, R phase fault developed in 220kV Dumka-Godda-1 line. Subsequently Zone 1 protection operated from both ends and line got tripped from Godda end. however at Dumka end, R-phase CB didn't open resulting in operation of Zone 3 protection from remote end for all emanating lines from Dumka S/s. This led to total power failure at 220kV Dumka S/s, Godda and Jasidih S/s.



Report from ERLDC is attached at **Annexure2.1**.

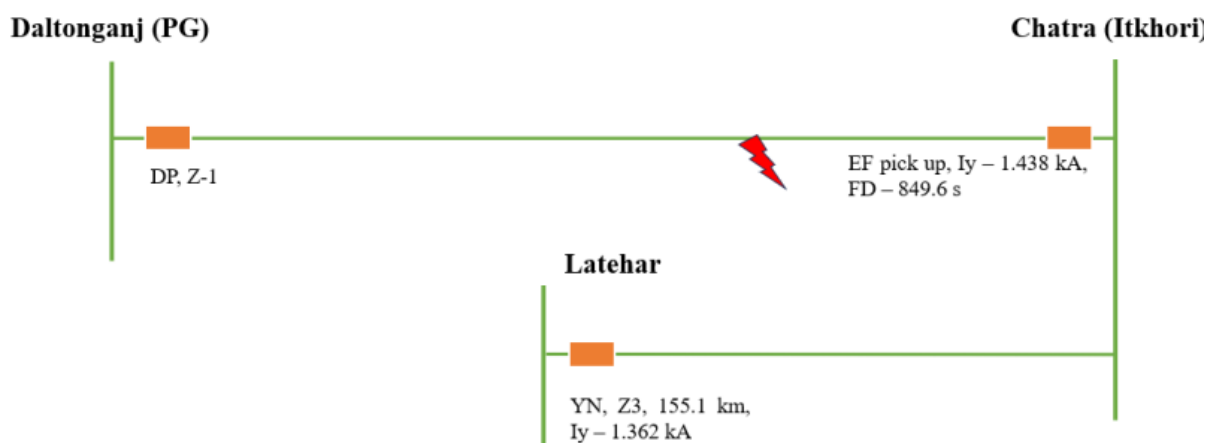
**Load Loss: 248 MW**

**Outage Duration: 01:14 Hrs**

**JUSNL may explain.**

## **2.2 Total Power Failure at 220kV Chatra (JUSNL) S/s on 4th May 2026 at 16:53 Hrs**

Y-B-Earth fault occurred in 220kV Chatra -Daltonganj line and line got tripped from Daltonganj end. The same fault was sensed by Latehar end for 220kV Latehar-Chatra line and the line tripped in Z-3 protection from Latehar end, resulting in total power failure at 220kV Chatra S/s.



Detailed report from ERLDC is attached at **Annexure2.2**.

**Load Loss: 30 MW**

**Outage Duration: 01:16 Hrs**

**JUSNL may explain.**

## **2.3 Total Power Failure at 220kV New Duburi (OPTCL) S/s on 7th May 2026 at 11:03 Hrs**

Prior to the disturbance 220 kV Bus-1 & 400/220 kV ICT-1 at 220 kV New Duburi S/S was under planned S/D. On 7<sup>th</sup> May 2026 at 11:03 Hrs, a bus fault got occurred in 220kV Bus-2 during isolator operation for restoration of 400/220kV 315 MVA ICT-1 which led to bus bar protection operation of 220kV bus-2 at New Duburi S/s and all elements connected through bus-2 got tripped and 220kV New Duburi S/s became dead.

Detailed report from ERLDC is attached at **Annexure2.3**.

**Load Loss: 95 MW**

**Outage Duration: 00:31 Hrs**

**OPTCL may explain.**

## 2.4 Grid Disturbance at 220kV Khagaria(BSPTCL) S/s on 25th May 2026 at 23:15 Hrs

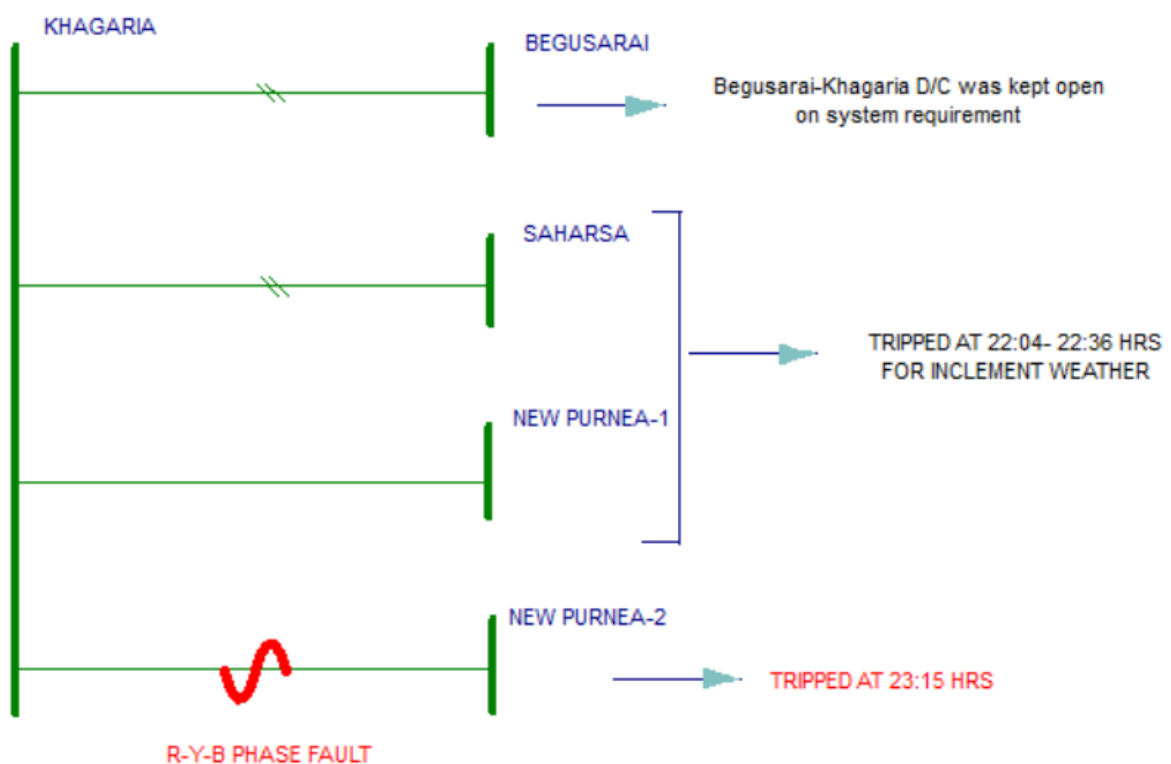
Prior to the disturbance 220kV Begusarai-Khagaria D/C was kept open on system requirement.

As per the information received, due to inclement weather the following circuits tripped on Phase to ground fault.

- 220KV-SAHARSA(PMTL)-KHAGARIA(NEW)-1 & 2
- 220KV-KHAGARIA-NEW PURNEA-1

Thereafter, Khagaria S/s was radially connected through 220kV Khagaria-New Purnea -2. At 23:15 Hrs, R-Y-B phase fault developed in 220kV New Purnea-Khagaria-2 circuit and the line tripped resulting in power outage at Khagaria S/s.

Detailed report from ERLDC is attached at **Annexure2.4**.



**Load Loss: 25 MW**

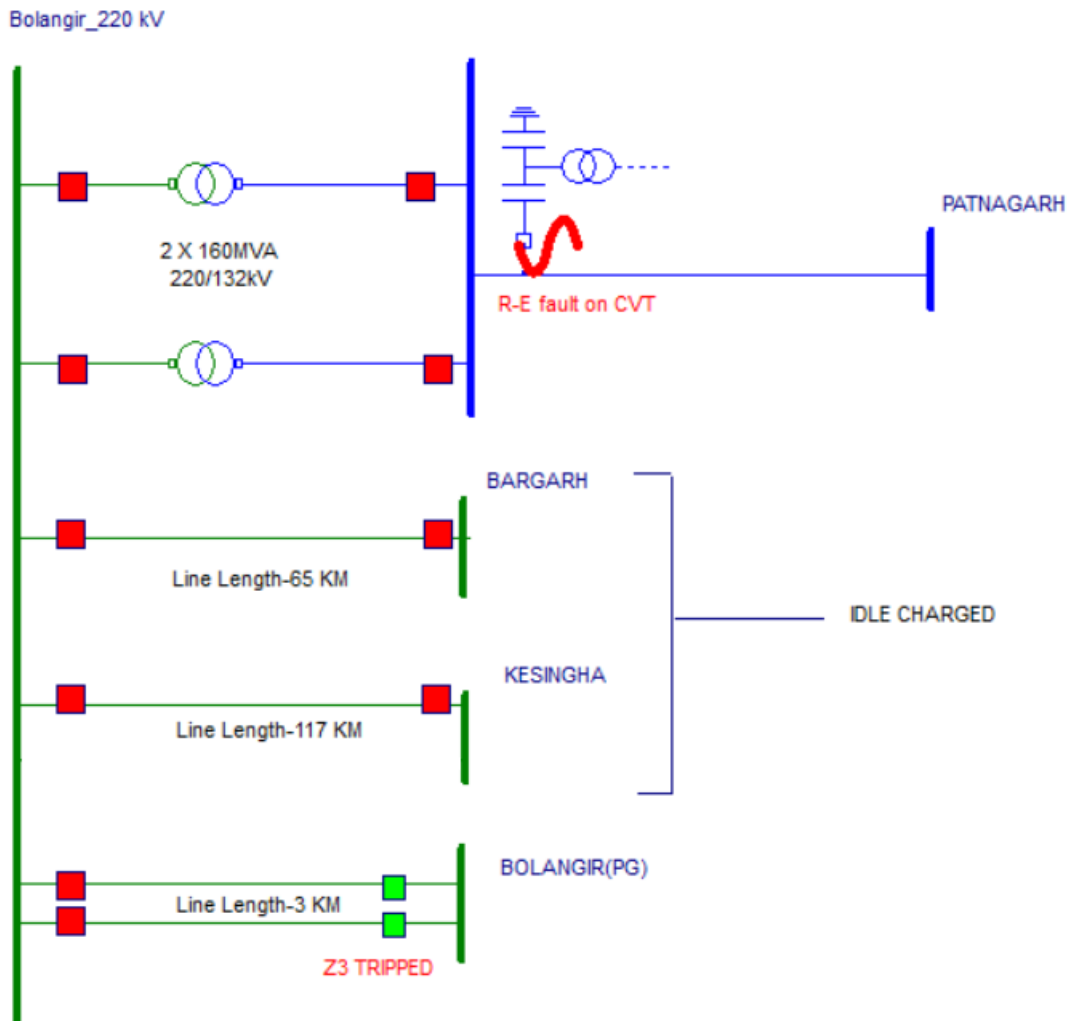
**Outage Duration: 00:15 Hrs**

**BSPTCL may explain.**

## 2.5 Total Power Failure at 220kV Bolangir (OPTCL) S/s on 23rd May 2026 at 21:54 Hrs

Prior to the disturbance 220 kV Bolangir (OPTCL)-Bargarh and 220kV Bolangir (OPTCL)-Kesinga line was idle-charged on system requirements and Bolangir(OPTCL) was connected through 220kV Bolangir(OPTCL)-Bolangir(PG) D/C line.

On 23<sup>rd</sup> May 2026 at 21:54 Hrs, R-phase CVT of 132KV Bolangir(OPTCL)- Patnagarh Line got burst which created R phase bus fault. The fault was cleared from remote end in Zone 3 protection by tripping of 220kV Bolangir(PG)-Bolangir(OPTCL) D/C from Bolangir(PG) end. Subsequently 220kV Bolangir(GRIDCO) S/s became dead.



Detailed report from ERLDC & OPTCL is attached at **Annexure2.5**.

**Load Loss: 300 MW**

**Outage Duration: 01:08 Hrs**

**OPTCL may explain.**

## 2.6 Frequent Non-Operation of Primary Protection & Repeated Z-3 Trippings at Bolangir S/s (OPTCL)

Powergrid vide mail dated 099.06.2026, in most instances, faults are not being cleared by the intended primary protection and are instead getting cleared under Zone-3 protection with a time delay of about 800 ms. this results in delayed fault clearance and prolonged exposure of primary equipment such as ICTs to through-fault currents.

Details of such tripping in recent past is attached at Annexure-2.6.

**OPTCL may explain. Members may discuss.**

## **2.7 Grid disturbance at 220kV Chatra S/s & the subsequent incident at Latehar S/s on 24th April 2026 at 18:58 Hrs & 20:11 hrs respectively**

In 158th PCC Meeting, JUSNL informed that the tripping could not be analysed as site personnel failed to extract the DR file from the relay. He updated that CRITL team would visit the substation in this week and thereafter they would submit the detailed report.

**JUSNL may update.**

## **2.8 Tripping of Bus during the month of May'26**

<b>Sl. No</b>	<b>Name of the Element</b>	<b>Trip Date</b>	<b>Trip Time</b>	<b>Reason of tripping</b>	<b>Utility</b>
1	220KV MAIN BUS - 2 AT RANCHI	2026-05-29	11:41	Due to LBB protection operation of main bay of 220kV Ranchi-Mejia line at Ranchi S/s.	PG ER-I/DVC
2	400KV MAIN BUS - 1 AT BIHARSARIFF	2026-05-04	17:35	LBB operated in 400kV main bay of Muzaffarpur ckt-2	PG ER-I

**Powergrid ER-I may explain.**

## **2.9 Tripping of ICTs during the month of May'26**

<b>Sl. No</b>	<b>Name of the Element</b>	<b>Trip Date/Time</b>	<b>Reason of tripping</b>	<b>Utility</b>
1	400KV/220KV 315 MVA ICT 2 AT RANCHI	2026-05-29 11:41	Due to LBB protection operation.	PG ER-I
2	400KV/220KV 315 MVA ICT 1 AT RANCHI	2026-05-29 11:41	Due to LBB protection operation.	PG ER-I
3	400KV/220KV 315 MVA ICT 4 AT NEW CHANDITALA	2026-05-28 17:26	Differential protection operated along with Buchholz protection.	WBSETCL
4	400KV/220KV 500 MVA ICT 5 AT BANKA (PG)	2026-05-27 03:10	Buchholz protection operated.	PG ER-I

5	400KV/220KV 315 MVA ICT 1 AT BARIPADA(PG)	2026-05-25 23:33	Differential Protection operated.	PG ODISHA
6	400KV/220KV 315 MVA ICT 1 AT BARIPADA(PG)	2026-05-24 04:51	Differential Protection operated.	PG ODISHA
7	400KV/220KV 315 MVA ICT 1 AT SAGARDIGHI	2026-05-23 15:47	Tripped due to Overcurrent protection operation.	WBPDCL
8	400KV/132KV 200 MVA ICT 3 AT KAHALGAON	2026-05-09 23:06	Tripped on R-phase Low impedance TEED-1 (87TT-1) protection operation	NTPC
9	400KV/220KV 250 MVA ICT 1 AT TENUGHAT	2026-05-11 09:35	Differential protection operated	TVUNL
10	400KV/220KV 315 MVA ICT 2 AT PATRATU	2026-05-09 15:42	Master Trip operated	JUSNL
11	400KV/220KV 315 MVA ICT 1 AT ROURKELA	2026-05-08 16:56	B-phase Differential protection operated.	PG ODISHA
12	400KV/220KV 315 MVA ICT 3 AT ROURKELA	2026-05-08 16:56	Tripped due to bus-bar protection operation.	PG ODISHA
13	400KV/220KV 315 MVA ICT 1 AT BIHARSARIFF	2026-05-04 17:35	LBB operated in 400kv main bay of Muzaffarpur circuit-II	PG ER-I

**Concerned Utilities may update.**

#### **2.10 Repeated tripping of transmission lines during the month of May'26**

Sl.No.	Name of the Element	No. of times Tripped	Reason of tripping	Utility
1	400KV-GOKARNA-SAGARDIGHI-1	5	Tripped on B-Earth fault in 3 instances (Fault distance was around 13-17 km from	WBSETCL

			Gokarna end), and R-Earth & R-Y-B-Earth in 2 instances.	
2	400KV-KHSTPP-BARH-2	3	A/r successful from Barh end and three phase tripping from Kahalgaon end in 2 instance and in 1 instance tripped on B-Earth fault.	KHSTPP, BARH & PG ER-1
3	400KV-PPSP-BIDHANNAGAR-2	4	Tripped on Y-Earth fault in 3 instance (Fault distance was 55 kM from PPSP) AND B-Earth fault (Fault distance 90 kM from PPSP) in 1 instance.	WBSETCL
4	220KV-DARBHANGA (DMTCL)-DARBHANGA-2	10	Tripped from Bihar end only in 5 instance and phase to ground fault in 5 instances.	DMTCL & BSPTCL
5	220KV-DALTONGANJ-CHATRA-1	5	Tripped on Y-B-Earth fault in 3 instance and R-Earth & Y-Earth fault in 2 instance.	JUSNL
6	220KV-DARBHANGA(DMTCL)-LAUKAHI-2	4	Tripped on B-Earth fault (Fault distance was around 32-35kM from Darbhanga end).Y-B fault in 2 instances (Fault distance was around 53kM from Laukahi end).	DMTCL & BSPTCL
7	220KV-TENUGHAT-BIHARSARIFF-1	4	Tripped on phase to ground fault in 4 instance and fault distance was around 90-120 KM.	JUSNL & BSPTCL
8	220KV-RANCHI-MTPS(DVC)-1	4	Tripped on R-Earth fault in 3 instance and B-Earth fault with successful A/r from Ranchi end in 1 instance.	DVC/PG ER-1
9	220KV-NEW PURNEA-MADHEPURA-D/C	7	Line-1 tripped 4 times (Y-B fault in 2 instance and phase to ground fault in 2 instance)	BSPTCL
10	220KV-RANCHI-HATIA-1 & 3	5	Line -1 tripped 3 times, A/r successful from Ranchi end in 2 instances. Line-3 tripped 2 times on R-Earth fault.	JUSNL/PG ER-1

## 2.11 Draft Guidelines for Harmonics measurements at Transmission level

In the 17th meeting of NPC held on 27.02.2026, the issue of Uniform criteria on Harmonics measurement in the grid was discussed and it was decided that draft guidelines prepared by Grid-India examined by RPCs in coordination with RLDCs and other stakeholders. Subsequently a meeting was held on 04th June 2026 by protection sub-group of NPC to discuss Draft Guidelines for Harmonic Measurements at Transmission Level.

The draft guidelines Harmonic Measurements at Transmission Level and the record notes of discussion for 04.06.2026 are attached at **Annexure2.11**.

Utilities are requested to go through the guidelines and share their comment/recommendations for further deliberations at NPC.

**Members may discuss.**

## 2.12 Status of UFR operation for the event on 13th May 2026.

During RE Generation loss event on 13th May 2026, the frequency went below 49.4 Hz & UFR Stage-I was triggered. The response of ER states are given below:

Constituent	UFR Stage	Quantum Approved in MW	Quantum Installed in MW	Quantum Operated	(Quantum Not Operated)
JUSNL	Stage 1	87	85	54	31
BSPTCL	Stage 1	315	292	93	199
ODISHA	Stage 1	306	316	205	111
West Bengal (WBSEDCL)	Stage 1	377	440	226	214
West Bengal (CESC)	Stage 1	120	120	72	48
DVC	Stage 1	172	173	150	23
Total ER		1377	1427	800	627

States have submitted the details of the feeder operated during the event. For BSPTCL. It was reported that some of the feeders did not operate as there was a time delay put in the relay for UFR operation.

All utilities are advised to make the UFR time delay as instantaneous for all stages. Further Utilities shall periodically check the healthiness of Under Frequency Relays.

**Members may discuss.**

### **2.13 Pickup Current Setting for Busbar Protection of 220 kV IB TPS(OPGC) Station.**

The existing Static Busbar Differential Relay at 220 kV Ib TPS has been replaced with a Numerical Busbar Differential Relay of M/s GE make (Model:B90).

OPGC vide mail informed that as per relay OEM recommendation, the pickup current setting is configured at 0.1 PU(20% of max load current). However, during the Protection Audit carried out by the OPTCL team, it was recommended to review the setting and increase the pickup current setting to 0.5 PU, corresponding to approximately 125% of the maximum current, considering the maximum current as 602 A.

They have requested to review and recommend the settings for busbar protection.

**Members may discuss.**

### **2.14 Observation on Auto Reclosing scheme of 400 kV Barh–Kahalgaon-2 Line at Barh**

400 kV Barh–Kahalgaon-2 Line tripped at 08:38 Hrs on 16.05.2026 due to a B-E fault. An A/R attempt through the Main CB after a dead time of 1000 msec failed due to the persistent fault. Subsequently, an A/R attempt of the Tie CB was also observed after about 1.67 seconds, which again failed due to the same fault.

Event analysis indicates that the "Wait for Master" condition/CB priority logic of the one and a half breaker scheme may not have been implemented, resulting in the Tie CB A/R cycle not being blocked following the unsuccessful Main CB A/R operation.

ERLDC, vide email dated 18.05.2026 (copy enclosed), suggested NTPC Barh to review the A/R logic and implement appropriate CB priority logic to prevent repeated reclosing onto permanent faults. However, the status of action taken is still awaited.

**NTPC Barh may update.**

### **2.15 Submission Format for SPS Operation Detailed Report by Users and SLDCs**

As per Clause No 16.3 of CERC IEGC regulation 2023, the users and SLDCs shall report about the operation of SPS immediately and detailed report shall be submitted within three days of operation to the concerned RPC and RLDC in the format specified by the respective RPCs. Accordingly, the SPS operation detailed report format is enclosed as Annexure-I.

All Users and SLDCs are requested to submit SPS operation reports in the prescribed format to ensure uniform reporting and compliance with the provisions of the IEGC Regulations, 2023.

**Members may note.**

## 2.16 Single Line Tripping Incidences in month of May-2026

Single line tripping incidents in the month of May-2026 which needs explanation from constituents of either end is attached at **Annexure2.16**.

**Members may discuss.**

## 3. PART-C: FOLLOW UP ITEMS

### 3.1. Compliance of third-party protection audit observations of critical substations carried out by ERPC

Third party protection audit of 7 numbers of critical substations mentioned below was done by ERPC Secretariat in 2025

1. 400/220 kV Tenughat S/s
2. 400k V Kahalgaon S/s
3. 400/220 kV Jeerat S/s
4. 400/220 kV Lapanga S/s
5. 220/132 kV Biharsharif S/s
6. 400/220 kV Meeramundali S/s
7. 220/132 kV Ramchnadrapur S/s

The compliance report on the audit observations has been submitted by TVNL. Further JUSNL vide letter dated 04.06.2026 sought some clarifications on the proposed settings. The report of TVNL & letter received from JUSNL are attached at **Annexure-3.1**. OPTCL, BSPTCL, WBSETCL & NTPC Kahalgaon is requested to submit the compliance report.

**Concerned Utilities may update.**

### 3.2. Over-voltage setting of 400kV & above transmission lines in Eastern Region

As per the decision of 158<sup>th</sup> PCC Meeting, separate meetings were held with Powergrid & DVC to finalize the overvoltage settings. The utility-wise settings are enclosed at Annexure.

**All Utilities are advised to implement the proposed overvoltage settings.**

### 3.3. Submission of protection performance indices on monthly basis by users to RPC and RLDC for 220 kV and above lines

As per IEGC 2023 Clause 15(6), 15(7) all users shall submit protection performance indices of previous month by 10<sup>th</sup> of every month to ERPC and ERLDC along with reasons for performance indices less than unity of individual element wise protection system to the

respective RPC and action plan for corrective measures. For the month of May'26, protection performance indices have been received from Tashiding HEP, Jorethang HEP, TVNL, PG-Odisha, WBSETCL, NTPC Barh, NPGC.

Concerned Utilities who have not submitted the performance Indices are requested to submit the details every month for necessary grid code compliance

**Concerned utilities may update.**

### 3.4. Follow-up of Decisions of the Previous Protection Sub-Committee Meeting(s)

**The latest status updated in 158<sup>th</sup> PCC Meeting is given below:**

SI No.	Name of the Incidence	PCC Recommendation	Latest status
<b>158<sup>th</sup> PCC Meeting held on 12.05.2026</b>			
1.	Grid disturbance at 400kV JSPL, ACP-PP-II S/s on 6 <sup>th</sup> April 2026 at 16:03 Hrs	PCC observed that tripping of the JSPL-Meramundali-2 in zone-4 was not in order and advised JSPL to carry out relay testing at the earliest.	
2.	Grid disturbance at 220kV Chatra S/s on 24 <sup>th</sup> April 2026 at 18:58 Hrs	PCC advised JUSNL to submit the detailed report on the above disturbance within a week.	
3.	Multiple elements tripping at Latehar Substation on 24-04-2026 at 20:11 Hrs	PCC advised JUSNL to complete the site visit within a week and submit the detailed analysis of the disturbance to ERPC within a week.	
4.	Grid Disturbance at Goraul(BSPTCL) S/s	BSPTCL informed that the carrier communication is in failed condition for Muzaffarpur-Goraul-II and the same would be rectified within two weeks' time.	
<b>157<sup>th</sup> PCC Meeting dated 16.04.2026</b>			
5.	Repeated Grid disturbance at 220 kV TTPS (OPTCL) S/s	PCC advised OHPC to share the revised settings to ERPC for record. PCC further advised OHPC to investigate the reason for tripping of 220kV Rengali PH-Nalco & 220 kV Rengali-TSTPP line during the above disturbance.	The settings file was received from Rengali HEP. The revised settings file has been sent to Rengali HEP for implementation at site. Rengali HEP may update.
6.	Tripping of 220 kV Ramchandrapur Bus-1 due to LBB Operation	PCC advised JUSNL & OPTCL to carry out testing of carrier scheme for 220 kV Joda-Ramchandrapur line and resolve the carrier fail issue at the earliest.	JUSNL informed that SDH amplifier at Joda end was found faulty and the same has been replaced. The PLCC would be brought into operation after testing.
7.	Tripping of 220 kV Bus-II at 220/132/33 kV Amnour Substation	BGCL/BSPTCL may update the timeline for restoration of Bus-II at Amnour S/s.	BSPTCL informed that the restoration work would take another 15-20 days