

सत्यमेव जयते

भारत सरकार  
Government of India  
विद्युत मंत्रालय  
Ministry of Power  
पूर्वी क्षेत्रीय विद्युत समिति

**Eastern Regional Power Committee**

14, गोल्फ क्लब रोड, टॉलीगंज, कोलकाता-700033  
14 Golf Club Road, Tollygunj, Kolkata-700033



वसुधैव कुटुम्बकम्  
ONE EARTH - ONE FAMILY - ONE FUTURE



Tel. No.: 033-24239651, 24239658 FAX No.: 033-24239652, 24239653 Web: [www.erpc.gov.in](http://www.erpc.gov.in)

**NO: ERPC/COM-II/ABT-DC/ 552**

**Date: 13.07.2023**

To: As per List / संलग्न सूची के अनुसार

**Sub: Deviation settlement for GRID Disturbance period(02.28 to 03.04 hrs on 28.06.2023)**

**विषय: ग्रिड विक्षोभ अवधि के लिए विचलन निपटान (28.06.2023 को 02.28 से 03.04 बजे तक)**

महोदय/Sir,

**Deviation settlement for GRID Disturbance period has been prepared as per clause no. 6.5.17 of IEGC Regulation'2010 & Hon'ble CERC order No. L-1/18/2010-CERC, dated 09.10.2019.**

***The last installment of data for the subjected period has been received from ERLDC/ISGS on 12.07.2023.***

The constituents, who have to Pay/Receive the Deviation Charges for Grid Disturbance period as indicated in the statement, are requested to make the payment to/Receive from the Deviation and Ancillary Service Pool account operated by ERLDC within 15 days of the billing date. In case of delayed payments for Deviation charges against these bills beyond 15 days, the defaulting constituents shall have to pay simple interest @0.04 % for each day of delay.

यदि कोई अवलोकन हो, पंद्रह दिनों के भीतर पू.क्षे.वि.स. सचिवालय को सूचित किया जा सकता है।

Observations, if any, may be intimated to ERPC Secretariat within a fortnight.

यह सदस्य सचिव के अनुमोदन से जारी किया जाता है।

**This issues with the approval of Member Secretary.**

Encl: As above

भवदीय / Yours faithfully,

(एस.केजरीवाल / S. KEJRIWAL)

अधीक्षण अभियंता / SUPERINTENDING ENGINEER

## List of Addressee

1. CE (Trans/O&M), BSPTCL, Vidyut Bhavan, Bailey Road, Patna-21. (Fax 0612-2504557)
2. ESE (Interstate), BSPHCL, Vidyut Bhavan, 3<sup>rd</sup> Floor, Bailey Road, Patna-800 021.
3. CE (Comml & Revenue), JBVNL, Engineering Building, H.E.C. Township, Dhurva, Ranchi-834004,
4. GM-cum-CE (Trans), JUSNL, Kusai Colony, Duranda, Ranchi, Jharkhand (Fax:0651-2490486)
5. CE (Comml), DVC, DVC Towers, VIP Road, Kolkata-700 054. (Fax: 033-23552129)
6. CE (SLDC), DVC, P.O.: Danesh Sheikh Lane, Andul Road, Howrah - 71110 9. FAX-033-2688-5094
7. Sr. GM(PP), GRIDCO, 4<sup>th</sup> floor, Vidyut Bhawan, Janpath, Bhubaneswar-22.
8. Sr. GM (PS), OPTCL, SLDC Bldg, PO Mancheswar Rly Colony, Bhubaneswar-17,
9. Sr. General Manager(Finance), OPGC, Odisha ( Fax: 06645 222225 )
10. CE (Trans.), Energy & Power Deptt., Govt. of Sikkim, Gangtok.-737 101
11. CE (SLDC), WBSETCL, PO. Danesh Sheikh Lane, Howrah-109. (Fax: 033-26886232)
12. Chief (Finance), NHPC Ltd, Sector-33, Faridabad-121003 (Fax: 0129-2254668)
13. ED (Comml), NHPC Ltd, Sector-33, Faridabad-121003 (Fax No. 0129-2254668)
14. AGM (Comml), NTPC Ltd, Loknayak Jaiprakash Bhawan, 2<sup>nd</sup> floor, Dak Banglow Chowk, Fraser Road, Patna-800 001.
15. GM (Comml), NTPC Ltd, 7 Institutional Area, Lodhi Road, New Delhi-3
16. AGH (Comml), Maithon Power Ltd, MA-5, Gonga, PO: Maithon Dam-828207
17. DGM (Electrical), APNRL, P.O. kandra, Behind 400kV PGCIL S/s, Tata-Kandra road, Dist: Saraikela, Kharsanwa ( Jharkhand) – 832 105
18. AGM(Comml.), ER-I, Powergrid, Patna ( Fax: 0612 2227630 )
19. AGM(Comml.), ER-II, Powergrid, Kolkata (Fax NO. 033 2357 2827)
20. AGM(E&M), GATI Infrastructure Ltd., Sundung, Rongli, East Sikkim, Sikkim-737131(Fax: 08066885455)
21. ED, ERLDC, 14 Golf Club Road, Tollygunge, Kolkata-33 (Fax: 033-24235809)
22. ED, NRLDC, 18A, Shaheed JSS Marg, Katwaria Sarai, New Delhi-110 016. (Fax:011-26852747)
23. GM, SRLDC, 29 Race Course Road, Bangalore-560009 (Fax : 080-22268725).
24. GM, WRLDC, MIDC Area, Marol, Andheri (E), Mumbai-490093 (Fax: 022-28235434)
25. GM, NERLDC, Dongtiah, Lower Nongrah, Laplang, Shillong-793006 (Fax:0364-2537470)
26. GM(Power Sales), GMRKEL, Plot no 29, Satya Nagar, Bhubaneswar- 751 007(Fax: 0674- 2572794)
27. Head(Power Sales), JITPL, Local shopping centre, Sector-B1, Vasant kunj, New Delhi- 110 070
28. AGM, SO, NVVN, SCOPE Complex, Core-5, 1st & 2nd Floor, Lodhi Road, New Delhi-110003
29. Head(Commercial), TPTCL, Tata Power Co Ltd, B12 & 13, 2<sup>nd</sup> Floor, Shatabdi Bhawan, Sector 4, NOIDA – 201 301
30. ED, DANS Energy Pvt Ltd, 5<sup>th</sup> Floor, Building no.8, Tower-C, DLF Cyber City, Phase-II, GURGAON – 122 002
31. GM, Teesta Urja Limited, 2nd Floor, Vijaya Building. 17, Barakhamba Road. New Delhi – 110001 (Ph. 9810519283; 011- 46529600/46529700)
32. AGM, BRBCL, Nabinagar, Aurangabad BIHAR
33. Director, Shiga Energy Pvt. Ltd., 5th Floor, DLF Building No. 8, Tower-C, DLF Cyber City, Phase-II, Gurgaon – 122002
34. CEO, Sneha Kinetic Power Projects Pvt.Ltd. #31 -A, National Highway, Behind SNOD building,. Deorali, Gangtok, Sikkim-737102
35. ED(Commercial), PTC india Limited, 2<sup>nd</sup> Floor NBCC Tower, Bikaji Cama Palace, New Delhi-110066
36. GM, Rongnichu HEP, Madhya Bharat Power Corporation Limited, Sikkim-737102

**EASTERN REGIONAL POWER COMMITTEE, KOLKATA**

Deviation settlement for GRID Disturbance period

During 28.06.2023(02.28 to 03.04 hrs)

As per clause no. 6.5.17 of IEGC Reg'2010 & Hon'ble CERC order No. L-1/18/2010-CERC, dated 09.10.2019.

**(All Figures in Rs Lakhs)**

Name of Entity	Final DSM Charges	
	Payable	Receivable
<b>TUL</b>	<b>22.61435</b>	
<b>DIKCHU</b>	<b>2.13429</b>	
<b>TOTAL</b>	<b>24.74864</b>	

**TEESTA-III DSM Settlement during GRID Disturbance period on 28.06.2023(02.28 to 03.04 hrs)**

28-06-2023																																																						
Time Block		HPX										IEX										IEX_DAM					TOTAL SCHEDULE	Schedule During GD period	Total Refund to DSM Pool																									
Approval No.		SR/2023/6642/C					WR/2023/16651/C					WR/2023/16655/C					WR/2023/16656/C					IEX_DAM					MW	MW	Rs.																									
	Original Sch(MW)	Sch during GD(MW)	Deviation(MW )	Contract Rate of STOA(Rs/ MWh)	Refund to DSM Pool(Rs.)	Original Sch(MW)	Sch during GD(MW)	Deviation(MW )	Contract Rate of STOA(Rs/ MWh)	Refund to DSM Pool(Rs.)	Original Sch(MW)	Sch during GD(MW)	Deviation( MW)	ACPRs/MWh	Refund to DSM Pool(Rs.)	Original Sch(MW)	Sch during GD(MW)	Deviation( MW)	ACPRs/MWh	Refund to DSM Pool(Rs.)	Original Sch(MW)	Sch during GD(MW)	Deviation( MW)	ACPRs/MWh	Refund to DSM Pool(Rs.)	MW	MW	Rs.																										
02:15-02:30	666	666	0	4423.4	0	250	250	0	4336.1	0	0	0	0	0	0	100	100	0	4949.4	0	0.86	0.86	0	3350.66	0	1016.9	1016.9	0																										
02:30-02:45	666	0	666	4423.4	736499	250	0	250	4336.1	271006	0	0	0	0	0	100	0	100	4949.4	123735	0.9	0	0.9	3210.31	722	1016.9	0	1131963																										
02:45-03:00	630	0	630	4423.4	696689	250	0	250	4336.1	271006	11	0	11	2479.4	6818	100	0	100	4949.4	123735	25.9	0	25.9	3050.33	19751	1016.9	0	1117999																										
03:00-03:15	540	533.78	6.22	4423.4	6878	250	247.12	2.88	4336.1	3122	7	6.92	0.08	2479.4	50	100	98.85	1.15	4949.4	1423	119.9	119.9	0	3049.23	0	1016.9	1006.57	11473																										
<b>Total Refund to DSM Pool by TEESTA-III for GD period on 28.06.2023</b>																																																						<b>2261435</b>

**DIKCHU DSM Settlement during GRID Disturbance period on 28.06.2023(02.28 to 03.04 hrs)**

28-06-2023	APPPCL					IEX_DAM					TOTAL SCHEDULE	Schedule During GD period	Total Refund to DSM Pool
Time Block	ER/2023/8679/D												
Approval No.	Original Sch(MW)	Sch during GD(MW)	Deviation(MW)	Contract Rate of STOA(Rs/MWh)	Refund to DSM Pool(Rs.)	Original Sch(MW)	Sch during GD(MW)	Deviation(MW)	Contract Rate of STOA(Rs/MWh)	Refund to DSM Pool(Rs.)	MW	MW	Rs.
02:15-02:30	12.5	12.5	0	0	0	91.7	91.7	0	3350.7	0	104.2	104.2	0
02:30-02:45	12.5	0	12.5	0	0	91.7	0	91.7	3210.3	73596	104.2	0.0	73596
02:45-03:00	12.5	0	12.5	0	0	91.7	0	91.7	3050.3	69929	104.2	0.0	69929
03:00-03:15	12.5	0	12.5	0	0	91.7	0	91.7	3049.2	69904	104.2	0.0	69904
<b>Total Refund to DSM Pool by DIKCHU for GD period on 28.06.2023</b>												<b>213429</b>	

**Grid Controller of India (GRID-INDIA)**  
**ग्रिड कॉन्ट्रोलर ऑफ़ इंडिया (ग्रिड-इंडिया)**  
**EASTERN REGIONAL LOAD DESPATCH CENTRE**

**पूर्वी क्षेत्रीय भार प्रेषण केंद्र**

Preliminary Report

1. Date and time of the Grid Event (ग्रिड घटना की तिथि और समय): 28-06-2023 02:28

2. Event Type (ग्रिड घटना का प्रकार): GD-1

Complete Outage of 220 kV and above Substation	<input checked="" type="checkbox"/>
Multiple tripping	<input checked="" type="checkbox"/>
Islanding Event	<input type="checkbox"/>
Load Crash Event	<input type="checkbox"/>
Other Event including SPS operation	<input type="checkbox"/>

3. Antecedent Conditions (पूर्ववर्ती स्थिति)

4. Details (विवरण)	Pre-Event (घटना के पूर्व)	Post Event (घटना के उपरांत)
Grid Frequency (ग्रिड आवृत्ति) Hz	50.073	49.937
Demand (भार): MW		
Eastern Region (पूर्वी क्षेत्र)	21099	20602
Generation (विद्युत उत्पादन): MW		
Eastern Region (पूर्वी क्षेत्र)	28420	27010
TEESTA-III	1304	0
DIKCHU	106	0

4. Weather Condition: Inclement weather reported

5. Elements under outage:

NIL

6. Grid event Details (ग्रिड घटना का विवरण):

At 02:28 hrs. 400kV Teesta -Rangpo S/C, 400kV Teesta III-Dikchu S/C and 400kV Dikchu-Rangpo S/C tripped simultaneously. Fault was present in 400kV Dikchu-Rangpo S/C line which was sensed as Backup protection at Teesta end. The above tripping led to loss of complete evacuation path for Dikchu and Teesta III substation leading to generation loss of 1304 MW at Teesta III and 106 MW at Dikchu respectively. Total evacuation affected for Teesta was for 3-time blocks corresponding to 582MWhr of generation loss. All circuits restored by 03:04 hrs.

7. Transmission/Generation element Tripped/restored during the event (संचरण लाइन / विधुत उत्पादन इकाई जो घटना के दौरान बंद हो गयी):

Transmission/Generation element name संचरण लाइन / विधुत उत्पादन इकाई का नाम	Trip Date बंद होने की तिथि	Trip Time बंद होने का समय	Restoration Date वापस आने की तिथि	Restoration time वापस आने का समय
400KV-TEESTA-III-RANGPO-1	28/06/23	02:28	28/06/23	02:51
400KV-TEESTA-III-DIKCHU-1	28/06/23	02:28	28/06/23	03:04
400KV-RANGPO-DIKCHU-1	28/06/23	02:28	28/06/23	02:56
TEESTA III (200*6=1200MW)	28/06/23	02:28	28/06/23	Restored progressively
DIKCHU (2*48 MW)	28/06/23	02:28	28/06/23	03:46,03:47

8. Load/Generation Loss during the event (घटना के दौरान हुई भार/उत्पादन क्षति):

Area/ Region /Substation/Traction (जगह/क्षेत्र/ सबस्टेशन/कर्षण)	Amount of Load Loss (MW) भार क्षति की मात्रा	Amount of Generation Loss (MW) उत्पादन क्षति की मात्रा
Teesta III	0	1304
Dikchu	0	106

3. Action Taken by ERLDC (पू०क्षे०भा०प्रे०के० के द्वारा की गयी कार्रवाई):

Co-ordinated with RTAMC ER-2, TEESTA-III, DIKCHU & NLDC



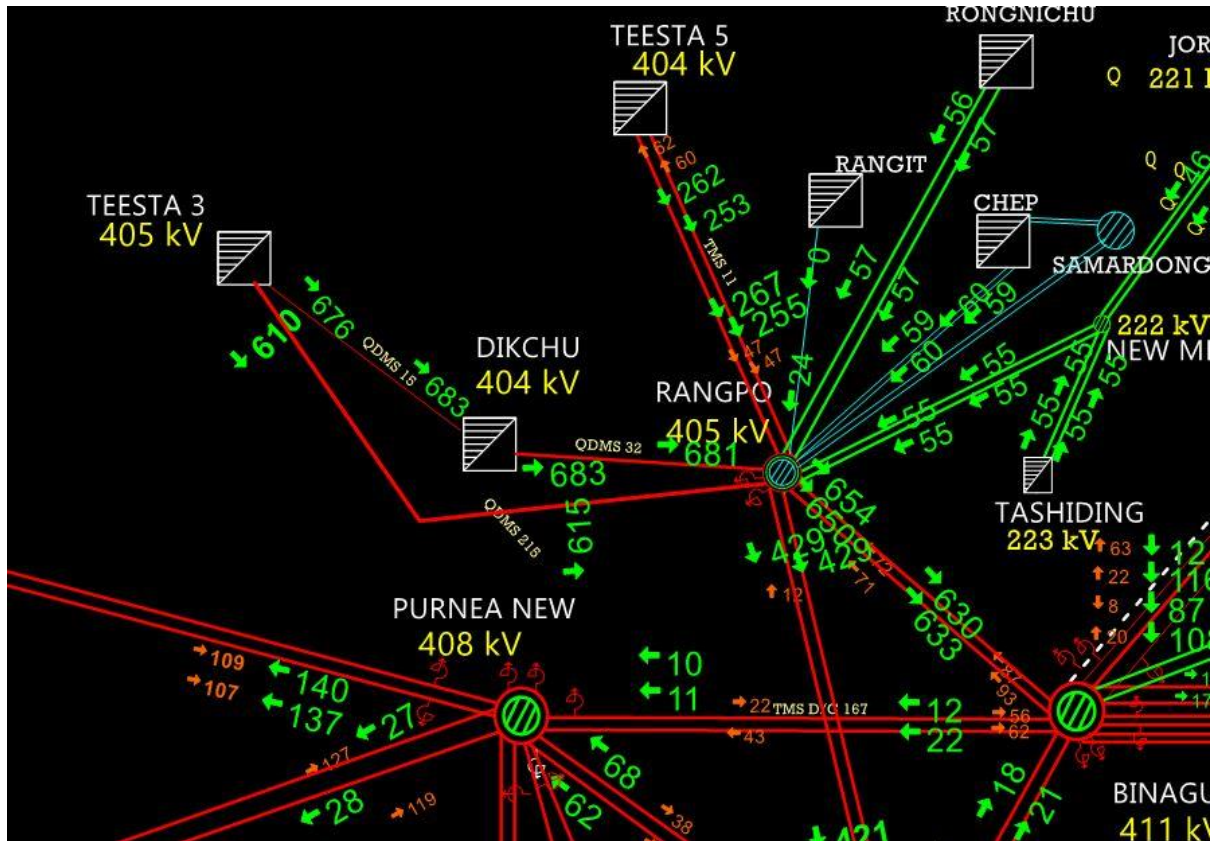
Shift-In Charge, ERLDC  
पाली प्रभारी, पू०क्षे०भा०प्रे०के०

प्रतिलिपि :

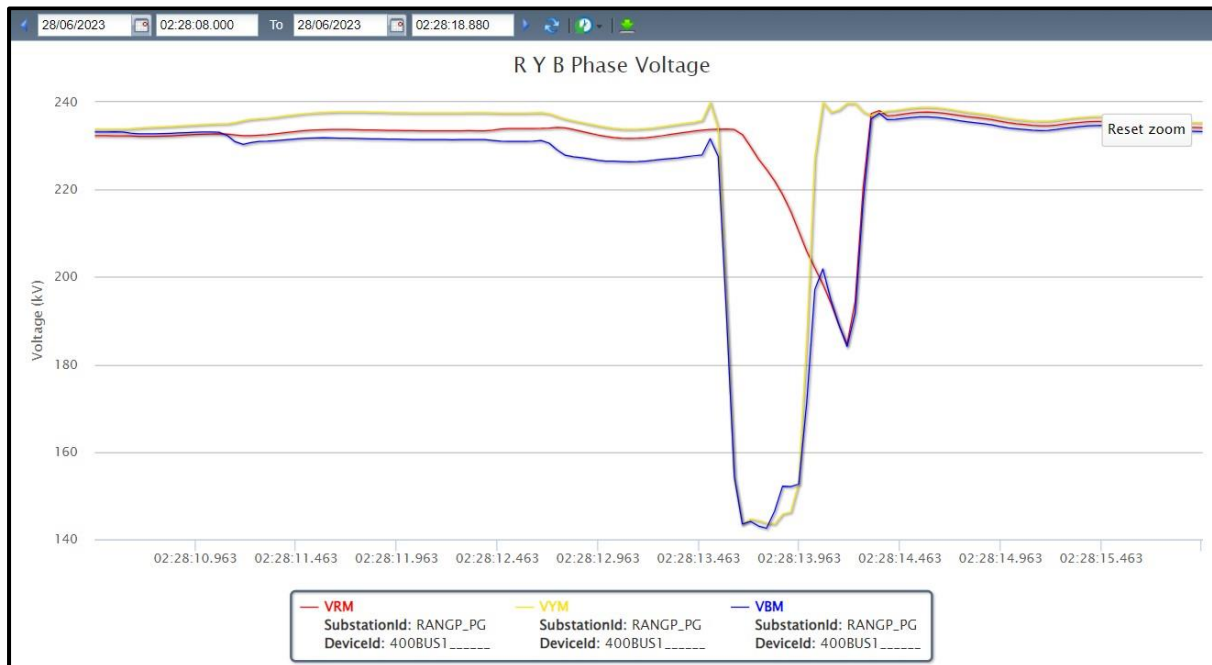
1. Shift-in charge, NLDC (पाली प्रभारी, रा०भा०प्रे०के०)
2. Affected utilities / user (घटना से प्रभावित सभी यूसर/यूटिलिटी)
3. MS, ERPC (सदस्य सचिव, पूर्वी क्षेत्रीय विधुत समिति)
4. 'cenpcea@gmail.com', 'cenpc-cea@gov.in

## Annexure (संलग्नक)

### 1. Network Map Snapshot (स्काडा चित्र)



### 2. PMU snapshot



### 3. Relay Indication:

- 400KV-TEESTA-III-RANGPO-1:
  - TEESTA-III-: Z-1,36.25kM, Iy:3.3kA, Z-3, Z-4 also sensed.
  - RANGPO: R-B\_N,55.34kM, Ir:4.3kA, Ib:4.5kA



- 400KV-TEESTA-III-DIKCHU-1:
  - TEESTA-III: Directions O/C, Backup protection.
  - DIKCHU:3.32msec, B-N,1.489kA
- 400KV-RANGPO-DIKCHU-1:
  - RANGPO: YB\_N,35.308kM, I<sub>y</sub>:9kA, I<sub>b</sub>:7.8kA.
  - DIKCHU:1.69s, I<sub>b</sub>:1.639kA, B\_N