

**GRID CONTROLLER OF INDIA LIMITED  
NATIONAL LOAD DESPATCH CENTRE  
NEW DELHI**

Date: **03-Nov-2023**

**System Reliability Indices Report for the month of October 2023**

**Percentage (%) of times ATC was violated**

S.No.	Corridor	Number of Blocks Violated	Number of Hours Violated	%Violation
1	WR-NR	0	0.00	0.00
2	ER-NR	0	0.00	0.00
3	Import of NR	0	0.00	0.00
4	NEW-SR	0	0.00	0.00
5	NER Import	0	0.00	0.00

**Percentage(%) of times (N-1) Criteria was violated**

S.No.	Corridor	Number of Blocks Violated	Number of Hours Violated	%Violation
1	WR-NR	0	0.00	0.00
2	ER-NR	0	0.00	0.00
3	Import of NR	0	0.00	0.00
4	NEW-SR	0	0.00	0.00
4	NER Import	0	0.00	0.00

Remarks: Flows crossing Total Transfer Capability (TTC) on interregional corridors has been worked out as a proxy for (N-1) violation.

## FREQUENCY DEVIATION INDEX FOR OCTOBER 2023

Date of reporting:

03-Nov-23

Date	Percentage of time frequency is			Freq Deviation Index* (FDI)	No. of hours frequency is outside 49.95- 50.05 Hz	Average Frequency (Hz)
	<49.90 Hz	49.90 - 50.05 Hz	>50.05 Hz			
01-Oct-23	6.27	77.52	16.20	22.48	5:23	50.00
02-Oct-23	4.77	82.93	12.30	17.07	4:05	49.99
03-Oct-23	12.13	66.92	20.95	33.08	7:56	49.99
04-Oct-23	21.10	68.47	10.43	31.53	7:34	49.96
05-Oct-23	9.56	75.67	14.77	24.33	5:50	49.99
06-Oct-23	9.62	73.62	16.76	26.38	6:19	49.99
07-Oct-23	21.11	69.94	8.95	30.06	7:12	49.96
08-Oct-23	7.97	71.26	20.76	28.74	6:53	50.00
09-Oct-23	19.10	67.84	13.07	32.16	7:43	49.97
10-Oct-23	18.51	63.50	18.00	36.50	8:45	49.98
11-Oct-23	18.47	70.06	11.47	29.94	7:11	49.97
12-Oct-23	9.61	72.00	18.39	28.00	6:43	50.00
13-Oct-23	5.13	75.19	19.69	24.81	5:57	50.01
14-Oct-23	10.91	69.69	19.40	30.31	7:16	50.00
15-Oct-23	6.13	78.01	15.86	21.99	5:16	50.00
16-Oct-23	9.90	67.88	22.22	32.12	7:42	49.99
17-Oct-23	9.93	69.83	20.24	30.17	7:14	50.00
18-Oct-23	7.96	77.09	14.94	22.91	5:29	49.99
19-Oct-23	10.42	73.29	16.30	26.71	6:24	49.99
20-Oct-23	3.17	80.44	16.39	19.56	4:41	50.01
21-Oct-23	3.69	81.50	14.80	18.50	4:26	50.00
22-Oct-23	5.69	74.92	19.39	25.08	6:01	50.00
23-Oct-23	2.42	75.84	21.74	24.16	5:47	50.01
24-Oct-23	1.57	81.01	17.42	18.99	4:33	50.01
25-Oct-23	4.16	79.58	16.26	20.42	4:54	50.00
26-Oct-23	5.35	78.29	16.37	21.71	5:12	50.00
27-Oct-23	3.60	76.32	20.08	23.68	5:41	50.01
28-Oct-23	12.06	74.64	13.30	25.36	6:05	49.98
29-Oct-23	4.18	79.95	15.87	20.05	4:48	50.00
30-Oct-23	4.80	74.28	20.91	25.72	6:10	50.00
31-Oct-23	5.74	79.61	14.65	20.39	4:53	49.99
<b>October 2023</b>	<b>8.87</b>	<b>74.42</b>	<b>16.71</b>	<b>25.58</b>	<b>190:17</b>	<b>49.99</b>

\*FDI is defined as percentage of time for which frequency is outside IEGC band (49.90-50.05 Hz)

विद्युत विभव रूपरेखा माह - अक्टूबर 2023

VOLTAGE PROFILE - OCTOBER 2023

Date of reporting: 03-Nov-23

क्र.सं. Sl. No.	क्षेत्र REGION	उपकेंद्र SUBSTATION	VOLTAGE < V(lower)* (V=380,728 kV)	V(lower) < VOLTAGE < V(upper)*	VOLTAGE > V(upper)* (V=420,800 kV)	Voltage Deviation Index (%age of time voltage is outside range)	Number of hours voltage was outside IEGC band during month	उच्चतम (कि.वॉ.) Maximum(kV)	निम्नतम(कि.वॉ.) Minimum(kV)	औसत (कि.वॉ.) Average(kV)
1	पूर्वी क्षेत्र ER	अंगुल ANGUL	0%	100%	0%	0%	0	795	751	779
2		दालिपली DARLIPALI	0%	100%	0%	0%	0	788	763	780
3		गया GAYA	0%	100%	0%	0%	0	783	755	772
4		जौरत JERAT	0%	100%	0%	0%	0	788	735	758
5		झारसुगुडा JHARSUGUDA	0%	100%	0%	0%	0	799	770	789
6		मिदिनपुर MEDINIPUR	0%	100%	0%	0%	0	790	750	769
7		रान्ची RANCHI	0%	100%	0%	0%	0	794	764	782
8		सासाराम SASARAM	0%	100%	0%	0%	0	800	749	764
1		आगरा AGRA	0%	100%	0%	0%	0	798	753	779
2		आगरा (फतेहबाद) AGRA (FATEHABAD)	0%	100%	0%	0%	0	792	741	770
3		अजमेर AJMER	0%	100%	0%	0%	1	802	750	778
4		अलीगढ़ ALIGARH	0%	100%	0%	0%	0	794	744	774
5		अनूपरा सी ANPARA-C	0%	100%	0%	0%	0	780	762	770
6		अनूपरा डी ANPARA-D	0%	100%	0%	0%	0	778	761	769
7	अंता ANTA	0%	100%	0%	0%	0	796	759	778	
8	बलिया BALLIA	0%	100%	0%	0%	0	781	745	767	
9	बारा BARA	0%	100%	0%	0%	0	787	761	774	
10	भाडला BHADLA	0%	100%	0%	0%	0	794	750	773	
11	भाडला-2 BHADLA-2	0%	100%	0%	0%	0	796	753	774	
12	भिवानी BHIWANI	0%	100%	0%	0%	0	800	754	782	
13	बीकानेर BIKANER	0%	100%	0%	0%	0	796	752	774	
14	बरौली BAREILLY	0%	100%	0%	0%	2	802	744	775	
15	चित्तौड़गढ़ CHITTORGARH	0%	100%	0%	0%	1	803	747	779	
16	फतेहगढ़-2 FATEHGARH-2	0%	100%	0%	0%	0	796	741	773	
17	फतेहपुर FATEHPUR	0%	100%	0%	0%	0	791	744	768	
18	ग्रेटर नोइडा GREATER NOIDA	0%	100%	0%	0%	0	798	743	777	
19	हावड़ा HAPUR	0%	99%	1%	1%	5	805	730	773	
20	जाहलपुर JAWAHARPUR	0%	100%	0%	0%	0	794	743	772	
21	झाड़कपुर JHATIKARA	0%	100%	0%	0%	0	794	746	775	
22	कानपुर जीआरएस KANPUR GIS	0%	100%	0%	0%	0	790	755	775	
23	खैतरी KHETRI	0%	100%	0%	0%	0	799	749	778	
24	कोटेश्वर KOTESHWAR	0%	100%	0%	0%	0	797	739	774	
25	ललितपुर LALITPUR	0%	100%	0%	0%	0	772	740	758	
26	लखनऊ LUCKNOW	0%	100%	0%	0%	0	794	749	773	
27	मैनपुरी MAINPURI	0%	100%	0%	0%	0	793	741	771	
28	मेरठ MEERUT	0%	100%	0%	0%	1	802	741	779	
29	मोगा MOGA	0%	100%	0%	0%	0	800	741	772	
30	ओबरा सी OBRA C	0%	100%	0%	0%	0	779	757	767	
31	उरई ORAI	0%	100%	0%	0%	1	803	763	785	
32	फागी PHAGI	0%	100%	0%	0%	0	801	751	779	
33	उन्नाव UNNAO	0%	100%	0%	0%	0	786	740	764	
34	वाराणसी VARANASI	0%	100%	0%	0%	0	789	764	777	
1	उत्तरी क्षेत्र NR	अकोला AKOLA	0%	100%	0%	0%	0	793	753	773
2		औरंगाबाद AURANGABAD	0%	100%	0%	0%	2	805	750	776
3		भोपाल (बीडीटीसीएल) BHOPAL (BDTCL)	0%	100%	0%	0%	0	789	749	769
4		भुज BHUJ	0%	100%	0%	0%	0	797	746	777
5		भुज-2 BHUJ-2	0%	100%	0%	0%	0	790	748	772
6		बिलासपुर BILASPUR	0%	100%	0%	0%	0	783	760	772
7		बीना BINA	0%	100%	0%	0%	0	795	758	778
8		बनारसकांठा BANASKANTHA	0%	100%	0%	0%	3	803	755	784
9		चम्पा CHAMPA	0%	100%	0%	0%	1	801	768	788
10		धुले (बीडीटीसीएल) DHULE (BDTCL)	0%	100%	0%	0%	0	799	751	774
11		धर्मजयगढ़ DHARAMJAGARH	0%	100%	0%	0%	0	787	761	777
12		रायपुर पूलिंग RAIPUR POOLING	0%	100%	0%	0%	0	790	767	780
13		एकतुनी EKTUNI	0%	100%	0%	0%	0	794	747	770
14		गदरवाड़ा GADARWARA	0%	100%	0%	0%	0	799	767	783
15		ग्वालियर GWALIOR	0%	100%	0%	0%	0	799	760	781
16		इंदौर INDORE	0%	100%	0%	0%	0	791	750	771
17		जबलपुर JABALPUR	0%	100%	0%	0%	1	804	769	786
18		खडवा KHANDWA	0%	100%	0%	0%	0	793	753	773
19		कोरडी KORADI	0%	100%	0%	0%	0	783	754	769
20		लखडिया LAKADIYA	0%	99%	1%	1%	8	805	756	783
21		ससांग पूलिंग RAIGARH POOLING	0%	100%	0%	0%	0	796	776	786
22		पाण्डे PADGHE	0%	99%	1%	1%	5	811	743	776
23		पार्ली PARLI	0%	99%	1%	1%	4	806	756	781
24		पुणे PUNE	0%	99%	1%	1%	5	809	742	776
25		राजनन्दगाँव RAJNANDGAON	0%	100%	0%	0%	0	801	769	786
26		सासन SASAN	0%	100%	0%	0%	0	789	769	780
27		सतना SATNA	0%	100%	0%	0%	0	797	768	784
28		सिवनी SEONI	0%	100%	0%	0%	0	793	758	775
29		सीपत SIPAT	0%	100%	0%	0%	0	784	762	773
30		सोलापुर SOLAPUR	0%	99%	1%	1%	6	810	757	783
31		तिरोडा TIRODA	0%	100%	0%	0%	0	777	756	766
32		तामनार TAMNAR	0%	100%	0%	0%	0	794	775	784
33		वडोदरा VADODARA	0%	100%	0%	0%	3	804	746	776
34		विंध्याचल पूलिंग VINDHYACHAL PS	0%	100%	0%	0%	0	790	772	783
35		वर्धा WARDHA	0%	100%	0%	0%	4	805	752	779
36		वरोरा WARORA	0%	100%	0%	0%	0	798	759	781
1	दक्षिणी क्षेत्र SR	कडपा CUDDAPAH	0%	96%	4%	4%	30	812	751	783
2		चिल्कलरीपेट CHILAKALURIPETA	0%	100%	0%	0%	2	802	743	772
3		कुरील KURNOOL	0%	100%	0%	0%	0	799	743	773
4		महेश्वर MAHESHWARAM	0%	95%	5%	5%	41	811	749	782
5		निजामाबाद NIZAMABAD	0%	92%	8%	8%	60	815	752	785
6		नेल्लोर पूलिंग NELLORE PS	0%	100%	0%	0%	0	796	745	770
7		रायचूर RAICHUR	0%	100%	0%	0%	2	805	749	777
8		श्रीकाकुलम SRIKAKULAM	0%	99%	1%	1%	7	804	749	782
9		तिरुवल्लम THIRUVALEM	0%	99%	1%	1%	4	801	740	772
10		वेमगिरी VEMAGIRI	0%	100%	0%	0%	3	807	742	774
1	पूर्वोत्तर क्षेत्र NER	बालिपारा BALIPARA (400 kV)	0%	100%	0%	0%	0	0	0	0
2		बिस्वनाथ चरिआलि BISWANATH CHARIALI (400 kV)	0%	100%	0%	0%	0	421	400	410
3		बोंगाईगाँव BONGAIGAON (400 kV)	0%	100%	0%	0%	0	415	397	408
4		बोंगाईगाँव टीपीएस BONGAIGAON TPS (400 kV)	0%	100%	0%	0%	0	418	402	411
5		इम्फाल IMPHAL (400 kV)	0%	100%	0%	0%	0	415	395	405
6		बर्निहाट BYRNihat (400 kV)	0%	100%	0%	0%	0	420	402	412
7		कामेंग KAMENG (400 kV)	0%	100%	0%	0%	0	414	396	405
8		अजारा AZARA (400 kV)	0%	100%	0%	0%	0	401	391	396
9		मिसा MISA (400 kV)	0%	100%	0%	0%	0	414	394	404
10		न्यू मरियानी NEW MARIANI (400 kV)	0%	100%	0%	0%	0	416	393	406
11		न्यू कोहिमा NEW KOHIMA (400 kV)	0%	100%	0%	0%	0	417	381	397
12		पालाटाना PALATANA (400 kV)	0%	100%	0%	0%	0	412	401	407
13		पूर्वकचनवारी PK BARI (400 kV)	0%	100%	0%	0%	0	411	390	404
14		रंगानदी RANGANADI (400 kV)	0%	94%	6%	6%	46	425	402	413
15		सिलचर SILCHAR (400 kV)	0%	100%	0%	0%	0	416	397	408
16		सुबानसिरी SUBANSIRI (400 kV)	0%	0%	0%	0%	0	0	0	0
17		सुर्ययामानिनगर SURJYAMANINAGAR (400 kV)	0%	100%	0%	0%	0	409	391	403
18		थोउबाल THOUBAL (400 kV)	0%	100%	0%	0%	0	412	386	400

All listed stations are 765 kV stations unless otherwise mentioned  
\*Percentage is calculated w.r.t. Time of one month.

# Monthly Angular spread w.r.to Vindhyachal\_Oct-2023

AGRA\_PG ALIPU\_PG BACHU\_PG BONGA\_PG CHDPR\_MH DURG4\_WB FARAK\_PG GIJKA\_PG  
HOSUR\_PG KALW4\_MH KISNP\_PG KOLAR\_PG KOTA\_PG KSTPS\_GS KZKDE\_PG MOGA\_PG  
PATNA\_PG PURNW\_PG RHNHV\_PG SILCR\_PG TALCH\_PG TCHRN\_PG UNNAO\_UP VINDP\_PG

