

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

Date: 05-Sep-2023

System Reliability Indices Report for the month of August 2023

Percentage (%) of times ATC was violated

S.No.	Corridor	Number of Blocks Violated	Number of Hours Violated	%Violation
1	WR-NR	9	2.25	0.30
2	ER-NR	0	0.00	0.00
3	Import of NR	0	0.00	0.00
4	NEW-SR	5	1.25	0.17
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	1	0.25	0.03
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 AUGUST 2023

Date of reporting:

05-Sep-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-Aug-23	2.59	74.59	22.81	25.41	6:05	50.01
02-Aug-23	2.69	82.63	14.69	17.37	4:10	50.00
03-Aug-23	5.14	84.95	9.91	15.05	3:36	49.99
04-Aug-23	6.17	80.07	13.76	19.93	4:47	49.99
05-Aug-23	6.32	83.22	10.46	16.78	4:01	49.99
06-Aug-23	1.19	79.44	19.36	20.56	4:56	50.01
07-Aug-23	6.20	79.32	14.48	20.68	4:57	49.99
08-Aug-23	13.61	75.22	11.17	24.78	5:56	49.97
09-Aug-23	22.93	68.63	8.44	31.37	7:31	49.95
10-Aug-23	9.48	79.24	11.28	20.76	4:59	49.99
11-Aug-23	4.16	76.86	18.98	23.14	5:33	50.01
12-Aug-23	1.63	76.25	22.12	23.75	5:42	50.02
13-Aug-23	1.78	87.08	11.13	12.92	3:06	50.00
14-Aug-23	6.70	80.75	12.55	19.25	4:37	49.99
15-Aug-23	7.87	82.85	9.28	17.15	4:07	49.98
16-Aug-23	3.61	79.81	16.57	20.19	4:50	50.01
17-Aug-23	1.26	72.05	26.69	27.95	6:42	50.03
18-Aug-23	1.67	68.99	29.34	31.01	7:26	50.03
19-Aug-23	3.24	69.64	27.12	30.36	7:17	50.02
20-Aug-23	4.75	82.64	12.62	17.36	4:10	50.00
21-Aug-23	18.06	72.88	9.06	27.12	6:30	49.96
22-Aug-23	6.47	74.41	19.12	25.59	6:08	50.00
23-Aug-23	1.75	67.64	30.61	32.36	7:46	50.03
24-Aug-23	2.04	81.86	16.10	18.14	4:21	50.01
25-Aug-23	5.29	82.35	12.36	17.65	4:14	50.00
26-Aug-23	2.36	83.10	14.54	16.90	4:03	50.00
27-Aug-23	0.42	83.44	16.15	16.56	3:58	50.01
28-Aug-23	1.88	76.32	21.81	23.68	5:41	50.02
29-Aug-23	18.06	73.84	8.10	26.16	6:16	49.96
30-Aug-23	25.10	66.06	8.83	33.94	8:08	49.95
31-Aug-23	25.16	69.68	5.16	30.32	7:16	49.94
August 2023	7.08	77.28	15.63	22.72	169:00	50.00

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

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.वो.) Maximum(kV)	निम्नतम(कि.वो.) Minimum(kV)	औसत (कि.वो.) Average(kV)
1	पूर्वी क्षेत्र ER	अंगुल ANGUL	0%	100%	0%	0%	0	799	743	773
2		दरिलिपली DARLIPALI	0%	100%	0%	0%	0	793	761	778
3		गया GAYA	0%	100%	0%	0%	0	793	761	779
4		जीरत JEEERAT	0%	100%	0%	0%	0	795	739	763
5		झारसुगुडा JHARSUGUDA	0%	100%	0%	0%	3	803	769	787
6		मिदनापुर MEDINIPUR	0%	100%	0%	0%	0	792	750	770
7		रांची RANCHI	0%	100%	0%	0%	0	796	766	781
8		सासाराम SASARAM	0%	100%	0%	0%	0	782	744	765
1	उत्तरी क्षेत्र NR	आगरा AGRA	0%	100%	0%	0%	0	799	756	777
2		आगरा (फतेहबाद) AGRA (FATEHABAD)	0%	100%	0%	0%	0	796	744	768
3		अजमेर AJMER	0%	100%	0%	0%	1	803	750	776
4		अलीगढ़ ALIGARH	0%	100%	0%	0%	0	796	746	772
5		अनपरा सी ANPARA-C	0%	100%	0%	0%	0	780	757	768
6		अनपरा डी ANPARA-D	0%	100%	0%	0%	0	778	755	766
7		अंता ANTA	0%	100%	0%	0%	0	804	759	778
8		बलिया BALLIA	0%	100%	0%	0%	0	795	752	772
9		बारा BARA	0%	100%	0%	0%	0	783	759	770
10		भाड़ला BHADLA	0%	100%	0%	0%	0	792	743	772
11		भाड़ला-2 BHADLA-2	0%	100%	0%	0%	0	797	751	775
12		भिवानी BHIWANI	0%	100%	0%	0%	0	798	750	775
13		बिकानेर BIKANER	0%	100%	0%	0%	0	798	748	773
14		बरेली BAREILLY	0%	99%	1%	1%	5	807	745	776
15		चित्तौड़गढ़ CHITTORGARH	0%	99%	1%	1%	5	806	748	781
16		फतेहगढ़-2 FATEHGARH-2	0%	100%	0%	0%	0	795	743	773
17		फतेहपुर FATEHPUR	0%	100%	0%	0%	0	792	743	769
18		ग्रेटर नोएडा GREATER NOIDA	0%	100%	0%	0%	0	800	743	773
19		हापड़ HAPUR	0%	100%	0%	0%	1	807	733	768
20		जवाहरपुर JAWAHARPUR	0%	100%	0%	0%	1	801	752	780
21		झटिकर JHATIKARA	0%	100%	0%	0%	0	793	747	770
22		कानपुर जीआईएस KANPUR GIS	0%	100%	0%	0%	0	789	751	772
23		खैरती KHETRI	0%	100%	0%	0%	0	797	746	773
24		कोटेश्वर KOTESHWAR	0%	100%	0%	0%	0	798	725	769
25		ललितपुर LALITPUR	0%	100%	0%	0%	0	781	742	758
26		लखनऊ LUCKNOW	0%	100%	0%	0%	0	797	744	772
27		मैनपुरी MAINPURI	0%	100%	0%	0%	0	798	750	776
28		मेरठ MEERUT	0%	100%	0%	0%	0	800	744	775
29		मोगा MOGA	0%	100%	0%	0%	0	799	748	768
30		ओबरा सी OBRA C	0%	100%	0%	0%	0	779	752	764
31		उरई ORAI	0%	100%	0%	0%	1	802	765	784
32		फागी PHAGI	0%	100%	0%	0%	0	805	755	777
33		उन्नाव UNNAO	0%	100%	0%	0%	0	790	741	763
34		वाराणसी VARANASI	0%	100%	0%	0%	0	794	761	779
1	पश्चिमी क्षेत्र WR	अकोला AKOLA	0%	100%	0%	0%	0	792	753	776
2		औरंगाबाद AURANGABAD	0%	100%	0%	0%	0	799	742	777
3		भोपाल (बीडीटीसीएल) BHOPAL (BDTCL)	0%	100%	0%	0%	0	787	751	772
4		भुज BHUJ	0%	100%	0%	0%	4	806	749	778
5		भुज-2 BHUJ-II	0%	100%	0%	0%	0	798	744	772
6		बिलासपुर BILASPUR	0%	100%	0%	0%	0	792	762	778
7		बीना BINA	0%	100%	0%	0%	0	800	765	781
8		बनसकंठा BANASKANTHA	0%	100%	0%	0%	3	810	754	784
9		चांपा CHAMPA	0%	94%	6%	6%	44	808	762	789
10		धुले (बीडीटीसीएल) DHULE (BDTCL)	0%	100%	0%	0%	0	798	753	777
11		धर्मजयगढ़ DHARAMJAGARH	0%	100%	0%	0%	0	793	764	779
12		रायपुर पूलिंग RAIPUR POOLING	0%	100%	0%	0%	0	793	765	783
13		एकतुनी EKTUNI	0%	100%	0%	0%	0	794	746	773
14		गदरवाड़ा GADARWARA	0%	100%	0%	0%	1	802	769	785
15		ग्वालियर GWALIOR	0%	100%	0%	0%	1	803	747	782
16		इंदौर INDORE	0%	100%	0%	0%	0	786	750	772
17		जबलपुर JABALPUR	0%	100%	0%	0%	1	801	775	787
18		खंडवा KHANDWA	0%	100%	0%	0%	0	789	752	775
19		कोरडी KORADI	0%	100%	0%	0%	0	801	749	767
20		लकाडिया LAKADIYA	0%	98%	2%	2%	14	809	752	783
21		रायगढ़ पूलिंग RAIGARH POOLING	0%	100%	0%	0%	0	801	769	786
22		पडघे PADGHE	0%	98%	2%	2%	12	812	745	781
23		परली PARLI	0%	99%	1%	1%	6	804	747	784
24		पुणे PUNE	0%	98%	2%	2%	15	812	739	779
25		राजनन्दगांव RAJNANDGAON	0%	97%	3%	3%	22	808	769	791
26		सासन SASAN	0%	100%	0%	0%	0	792	770	780
27		सतना SATNA	0%	100%	0%	0%	0	800	772	785
28		सिवनी SEONI	0%	100%	0%	0%	0	797	760	781
29		सीपत SIPAT	0%	100%	0%	0%	0	792	764	779
30		सोलापुर SOLAPUR	0%	98%	2%	2%	15	805	748	785
31		तिरोडा TIRODA	0%	100%	0%	0%	0	778	749	764
32		तामनार TAMNAR	0%	100%	0%	0%	0	799	768	784
33		वाडोदरा VADODARA	0%	100%	0%	0%	3	804	747	779
34		विन्ध्याचल पूलिंग VINHYACHAL PS	0%	100%	0%	0%	0	795	774	783
35		वर्धा WARDHA	0%	100%	0%	0%	0	802	746	780
36		वरीसत WARORA	0%	100%	0%	0%	2	806	756	785
1	दक्षिणी क्षेत्र SR	कुडपा CUDDAPAH	0%	92%	8%	8%	55	818	754	785
2		चिल्कलरीट्टे CHILAKALURIPETA	0%	99%	1%	1%	7	816	735	779
3		कूर्नूल KURNOOL	0%	100%	0%	0%	0	801	736	774
4		महेश्वरम MAHESWARAM	0%	97%	3%	3%	20	812	738	780
5		निजामाबाद NIZAMABAD	0%	93%	7%	7%	47	812	735	784
6		नेल्लूर पूलिंग NELLORE PS	0%	100%	0%	0%	0	800	741	769
7		रायचूर RAICHUR	0%	100%	0%	0%	1	804	741	778
8		श्रीकाकुलम SRIKAKULAM	0%	96%	4%	4%	27	810	739	783
9		तिरुवलम THIRUVALEM	0%	99%	1%	1%	7	809	740	772
10		वेमगिरी VEMAGIRI	0%	95%	5%	5%	37	812	738	782
1	पूर्वोत्तर क्षेत्र NER	बालिपार BALIPARA (400 kV)	0%	0%	0%	0%	0	0	0	0
2		बिस्वनाथ चरिआलि BISWANATH CHARIALI (400 kV)	0%	100%	0%	0%	0	416	399	407
3		बोंगाईगांव BONGAIGAON (400 kV)	0%	100%	0%	0%	0	412	400	406
4		बोंगाईगांव टीपीएस BONGAIGAON TPS (400 kV)	0%	100%	0%	0%	0	416	403	410
5		इम्फाल IMPHAL (400 kV)	0%	100%	0%	0%	0	419	396	405
6		बर्निहाट BYRNIHAT (400 kV)	0%	100%	0%	0%	0	418	404	411
7		कामेंग KAMENG (400 kV)	0%	100%	0%	0%	0	410	396	402
8		अज़ारा AZARA (400 kV)	0%	100%	0%	0%	0	398	390	395
9		मीसा MISA (400 kV)	0%	100%	0%	0%	0	411	394	402
10		न्यू मरियानी NEW MARIANI (400 kV)	0%	100%	0%	0%	0	415	396	406
11		न्यू कोहिमा NEW KOHIMA (400 kV)	0%	100%	0%	0%	0	415	383	399
12		पालाटाना PALATANA (400 kV)	0%	100%	0%	0%	0	412	355	407
13		पूर्वकंचनवारी PK BARI (400 kV)	0%	100%	0%	0%	0	412	387	403
14		रंगानदी RANGANADI (400 kV)	0%	100%	0%	0%	0	418	404	410
15		सिलचर SILCHAR (400 kV)	0%	100%	0%	0%	0	415	396	406
16		सुबानसिरी SUBANSIRI (400 kV)	0%	0%	0%	0%	0	0	0	0
17		सुरज्यामनिगर SURJYAMANINAGAR (400 kV)	0%	100%	0%	0%	0	411	395	404
18		थोबाल THOUBAL (400 kV)	0%	100%	0%	0%	0	411	388	399

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_Aug-2023

AGRA_PG ALIPU_PG BACHU_PG BALIP_PG BONGA_PG CHDPR_MH DURG4_WB FARAK_PG GJWKA_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

