

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

Date: **04-Aug-2023**

System Reliability Indices Report for the month of July 2023

Percentage (%) of times ATC was violated

S.No.	Corridor	Number of Blocks Violated	Number of Hours Violated	%Violation
1	WR-NR	74	18.50	2.49
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	25	6.25	0.84
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 JULY 2023

Date of reporting:

04-Aug-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-Jul-23	8.84	72.60	18.55	27.40	6:34	49.99
02-Jul-23	12.53	71.55	15.91	28.45	6:49	49.98
03-Jul-23	11.26	71.89	16.85	28.11	6:44	49.98
04-Jul-23	2.49	71.81	25.71	28.19	6:46	50.02
05-Jul-23	4.47	67.51	28.02	32.49	7:47	50.01
06-Jul-23	5.21	68.34	26.45	31.66	7:35	50.01
07-Jul-23	4.93	72.86	22.21	27.14	6:30	50.00
08-Jul-23	5.38	69.90	24.72	30.10	7:13	50.01
09-Jul-23	4.27	79.83	15.90	20.17	4:50	50.00
10-Jul-23	7.36	62.80	29.84	37.20	8:55	50.01
11-Jul-23	4.51	74.68	20.81	25.32	6:04	50.01
12-Jul-23	7.51	74.46	18.03	25.54	6:07	50.00
13-Jul-23	4.71	70.84	24.44	29.16	6:59	50.01
14-Jul-23	1.40	71.74	26.86	28.26	6:47	50.03
15-Jul-23	3.44	76.98	19.58	23.02	5:31	50.01
16-Jul-23	2.95	83.83	13.22	16.17	3:52	50.00
17-Jul-23	3.44	79.87	16.69	20.13	4:49	50.00
18-Jul-23	5.47	81.15	13.38	18.85	4:31	50.00
19-Jul-23	3.47	79.39	17.14	20.61	4:56	50.01
20-Jul-23	2.89	79.99	17.12	20.01	4:48	50.00
21-Jul-23	6.12	83.47	10.41	16.53	3:58	49.99
22-Jul-23	3.55	77.49	18.96	22.51	5:24	50.01
23-Jul-23	3.53	76.24	20.23	23.76	5:42	50.01
24-Jul-23	3.01	79.25	17.74	20.75	4:58	50.00
25-Jul-23	5.51	79.24	15.25	20.76	4:59	50.00
26-Jul-23	1.59	71.55	26.86	28.45	6:49	50.02
27-Jul-23	1.83	77.60	20.57	22.40	5:22	50.01
28-Jul-23	0.46	83.48	16.05	16.52	3:57	50.01
29-Jul-23	2.93	75.63	21.45	24.38	5:51	50.02
30-Jul-23	2.64	66.79	30.57	33.21	7:58	50.04
31-Jul-23	4.98	71.03	23.99	28.97	6:57	50.01
July 2023	4.60	74.96	20.44	25.04	186:17	50.01

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

विद्युत विभव रूपरेखा माह - जुलाई 2023

VOLTAGE PROFILE - JULY 2023

Date of reporting: 04-Aug-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	794	750	775	
2		दालिपली DARLIPALI	0%	100%	0%	0%	0	788	765	779	
3		गया GAYA	0%	100%	0%	0%	0	792	742	766	
4		जौरत JERAT	0%	100%	0%	0%	0	796	738	765	
5		झारसुगुडा JHARSUGUDA	0%	100%	0%	0%	0	799	773	787	
6		मिदिनपुर MEDINIPUR	0%	100%	0%	0%	0	793	746	769	
7		रान्ची RANCHI	0%	100%	0%	0%	0	794	762	779	
8		सासाराम SASARAM	0%	100%	0%	0%	0	781	743	764	
1		उत्तरी क्षेत्र NR	आगरा AGRA	0%	100%	0%	0%	0	796	742	777
2			आगरा (फतेहगढ़) AGRA (FATEHABAD)	0%	100%	0%	0%	0	794	744	770
3	अजमेर AJMER		0%	100%	0%	0%	0	800	745	778	
4	अलीगढ़ ALIGARH		0%	100%	0%	0%	0	798	740	772	
5	अनूपमा सी ANPARA-C		0%	100%	0%	0%	0	780	754	765	
6	अनूपमा डी ANPARA-D		0%	100%	0%	0%	0	777	751	763	
7	अन्ता ANTA		0%	98%	2%	2%	17	807	761	788	
8	बलिया BALLIA		0%	100%	0%	0%	0	793	737	769	
9	बारा BARA		0%	100%	0%	0%	0	785	754	770	
10	भादला BHADLA		0%	100%	0%	0%	0	793	717	771	
11	भादला-2 BHADLA-2		0%	100%	0%	0%	0	799	704	773	
12	भिवानी BHIWANI		0%	100%	0%	0%	0	797	745	775	
13	बीकानेर BIKANER		0%	100%	0%	0%	0	798	714	772	
14	बरौली BAREILLY		0%	100%	0%	0%	1	803	739	773	
15	चित्तौड़गढ़ CHITTORGARH		0%	100%	0%	0%	3	803	759	781	
16	फतेहगढ़-2 FATEHGARH-2		0%	100%	0%	0%	1	798	708	772	
17	फतेहपुर FATEHPUR		0%	100%	0%	0%	0	794	730	770	
18	ग्रेटर नोइडा GREATER NOIDA		0%	100%	0%	0%	0	800	743	774	
19	हावड़ा HAPUR		0%	100%	0%	0%	1	801	737	769	
20	जाहानपुर JAWAHARPUR		0%	0%	0%	0%	0	0	0	0	
21	झाड़कपुर JHATIKARA		0%	100%	0%	0%	0	792	741	770	
22	कानपुर जेआइएस KANPUR GIS		0%	100%	0%	0%	0	790	740	769	
23	खेतरा KHETRI		0%	100%	0%	0%	0	797	737	773	
24	कोटेश्वर KOTESHWAR		0%	100%	0%	0%	0	795	739	769	
25	ललितपुर LALITPUR		0%	100%	0%	0%	0	777	741	758	
26	लखनऊ LUCKNOW		0%	100%	0%	0%	0	794	737	770	
27	मैनपुरी MAINPURI		0%	100%	0%	0%	0	802	750	777	
28	मेरठ MEERUT		0%	100%	0%	0%	0	800	740	775	
29	मोगा MOGA		0%	100%	0%	0%	0	799	734	768	
30	ओबरा सी OBRA C		0%	100%	0%	0%	0	778	745	759	
31	उई ORAI	0%	100%	0%	0%	2	804	749	782		
32	फागी PHAGI	0%	100%	0%	0%	0	800	748	779		
33	उन्नाव UNNAO	0%	100%	0%	0%	0	789	737	762		
34	वाराणसी VARANASI	0%	100%	0%	0%	0	794	749	773		
1	पश्चिमी क्षेत्र WR	अकोला AKOLA	0%	100%	0%	0%	0	795	751	776	
2		औरंगाबाद AURANGABAD	0%	100%	0%	0%	0	798	749	778	
3		भोपाल (बीडीटीसीएल) BHOPAL (BDTCL)	0%	100%	0%	0%	0	792	754	771	
4		भुज BHUJ	0%	100%	0%	0%	0	794	747	774	
5		भुवनेश्वर BHUJ-I	0%	100%	0%	0%	0	782	742	767	
6		बिलासपुर BILASPUR	0%	100%	0%	0%	0	790	759	774	
7		बीना BINA	0%	100%	0%	0%	0	800	756	779	
8		बनारसकन्था BANASKANTHA	0%	100%	0%	0%	2	804	761	782	
9		चम्पा CHAMPA	0%	92%	8%	8%	58	809	766	789	
10		धुले (बीडीटीसीएल) DHULE (BDTCL)	0%	100%	0%	0%	0	794	758	777	
11		धर्मजयगढ़ DHARAMJAI GARH	0%	100%	0%	0%	0	789	759	773	
12		रायपुर पोलिंग RAIPUR POOLING	0%	100%	0%	0%	0	796	767	784	
13		एकतुनी EKTUNI	0%	100%	0%	0%	0	797	749	775	
14		गदरवाड़ा GADARWARA	0%	100%	0%	0%	2	802	768	783	
15		ग्वालियर GWALIOR	0%	100%	0%	0%	0	800	747	780	
16		इंदौर INDORE	0%	100%	0%	0%	0	788	754	771	
17		जबलपुर JABALPUR	0%	99%	1%	1%	8	804	762	782	
18		खडवा KHANDWA	0%	100%	0%	0%	0	791	756	774	
19		कोरडी KORADI	0%	100%	0%	0%	0	791	747	767	
20		लखडिया LAKADIYA	0%	100%	0%	0%	0	799	755	779	
21		ससायन पोलिंग RAIGARH POOLING	0%	100%	0%	0%	0	798	773	786	
22		पाटने PADGHE	0%	99%	1%	1%	8	808	751	782	
23		पारुली PARULI	0%	98%	2%	2%	15	807	756	787	
24		पुणे PUNE	0%	98%	2%	2%	13	810	747	780	
25		राजनन्दगाँव RAJNANDGAON	0%	96%	4%	4%	26	806	774	792	
26		सासन SASAN	0%	100%	0%	0%	0	791	761	776	
27		सतना SATNA	0%	100%	0%	0%	2	801	762	783	
28		सिबनी SEONI	0%	100%	0%	0%	0	798	762	781	
29		सीपत SIPAT	0%	100%	0%	0%	0	788	761	776	
30		सोलापुर SOLAPUR	0%	99%	1%	1%	10	805	759	787	
31		तिरुओ TIRORA	0%	100%	0%	0%	0	781	744	764	
32		तामनार TAMNAR	0%	100%	0%	0%	0	796	773	784	
33		वडोदरा VADODARA	0%	100%	0%	0%	0	794	751	776	
34		विन्ध्यचल पोलिंग VINDHYACHAL PS	0%	100%	0%	0%	0	795	764	780	
35		वर्धा WARDHA	0%	100%	0%	0%	3	805	753	784	
36		वरौरा WARORA	0%	100%	0%	0%	1	802	760	786	
1	दक्षिणी क्षेत्र SR	कडपा CUDDAPAH	0%	98%	2%	2%	18	807	751	783	
2		चिल्कलरीपेट CHILAKALURIPETA	0%	100%	0%	0%	0	800	735	769	
3		कुरनूल KURNOOL	0%	100%	0%	0%	0	799	745	776	
4		महेश्वर MAHESHWARAM	0%	96%	4%	4%	29	808	736	782	
5		निजामाबाद NIZAMABAD	0%	88%	12%	12%	88	813	744	789	
6		नेल्लोर पोलिंग NELLORE PS	0%	100%	0%	0%	0	794	748	772	
7		रायचूर RAICHUR	0%	100%	0%	0%	0	800	750	780	
8		श्रीकाकुलम SRIKAKULAM	0%	99%	1%	1%	8	806	745	782	
9		तिरुवल्लूर THIRUVALEM	0%	100%	0%	0%	1	801	743	769	
10		वेमगिरी VEMAGIRI	0%	99%	1%	1%	8	806	739	777	
1	पूर्वोत्तर क्षेत्र NER	बालिपारा BALIPARA (400 kV)	0%	100%	0%	0%	0	418	396	407	
2		बिस्वनाथ चरिआलि BISWANATH CHARIALI (400 kV)	0%	100%	0%	0%	0	411	396	405	
3		बोंगाईगाँव BONGAIGAON (400 kV)	0%	100%	0%	0%	0	415	401	408	
4		बोंगाईगाँव टीपीएस BONGAIGAON TPS (400 kV)	0%	100%	0%	0%	0	417	394	404	
5		इम्फाल IMPHAL (400 kV)	0%	100%	0%	0%	0	417	402	410	
6		बर्मिहाट BYRNihat (400 kV)	0%	100%	0%	0%	0	410	395	402	
7		कामेंग KAMENG (400 kV)	0%	100%	0%	0%	0	400	386	395	
8		अजारा AZARA (400 kV)	0%	100%	0%	0%	0	412	392	402	
9		मिसा MISA (400 kV)	0%	100%	0%	0%	0	414	395	405	
10		न्यू मरियानी NEW MARIANI (400 kV)	0%	100%	0%	0%	0	417	393	406	
11		न्यू कोहिमा NEW KOHIMA (400 kV)	0%	100%	0%	0%	0	415	400	408	
12		पालाटाना PALATANA (400 kV)	0%	100%	0%	0%	0	414	396	404	
13		पुबकचनवारी PK BARI (400 kV)	0%	100%	0%	0%	0	421	401	410	
14		रंगानदी RANGANADI (400 kV)	0%	100%	0%	0%	0	416	390	406	
15		सिलचर SILCHAR (400 kV)	0%	0%	0%	0%	0	0	0	0	
16		सुबान्सिरी SUBANSIRI (400 kV)	0%	0%	0%	0%	0	0	0	0	
17		सुरज्यामनिनगर SURJYAMANINAGAR (400 kV)	0%	100%	0%	0%	0	413	395	404	
18		थोउबाल THOUBAL (400 kV)	0%	100%	0%	0%	0	410	384	397	

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

Monthly All India angular spread w.r.to. Vindhaychal_Jul-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

