

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

Date: 05-Aug-2024

**System Reliability Indices Report for the month of JULY 2024**

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

S.No.	Corridor	Number of Blocks Violated	Number of Hours Violated	%Violation
1	WR-NR	16	4.00	0.54
2	ER-NR	1	0.25	0.03
3	Import of NR	149	37.25	5.01
4	NEW-SR	1	0.25	0.03
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	1	0.25	0.03
2	ER-NR	1	0.25	0.03
3	Import of NR	6	1.50	0.20
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 JUNE 2024

Date of reporting:

05-Aug-24

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-24	1.97	77.29	20.74	22.71	5:27	50.01
02-Jul-24	5.27	77.08	17.65	22.92	5:30	50.00
03-Jul-24	7.31	78.80	13.89	21.20	5:05	49.99
04-Jul-24	8.66	79.58	11.76	20.42	4:54	49.99
05-Jul-24	11.70	67.66	20.64	32.34	7:45	49.99
06-Jul-24	1.83	77.25	20.93	22.75	5:27	50.02
07-Jul-24	7.03	81.55	11.42	18.45	4:25	49.99
08-Jul-24	4.76	84.50	10.74	15.50	3:43	50.00
09-Jul-24	11.92	74.46	13.62	25.54	6:07	49.99
10-Jul-24	7.77	73.31	18.92	26.69	6:24	50.00
11-Jul-24	3.24	83.97	12.79	16.03	3:50	50.00
12-Jul-24	4.25	72.45	23.30	27.55	6:36	50.01
13-Jul-24	7.25	70.95	21.81	29.05	6:58	50.01
14-Jul-24	6.92	81.59	11.49	18.41	4:25	49.99
15-Jul-24	8.96	71.82	19.22	28.18	6:45	49.99
16-Jul-24	5.23	78.61	16.16	21.39	5:08	50.00
17-Jul-24	7.11	83.90	8.99	16.10	3:51	49.99
18-Jul-24	4.48	81.79	13.73	18.21	4:22	50.00
19-Jul-24	3.00	88.09	8.91	11.91	2:51	50.00
20-Jul-24	10.61	79.54	9.85	20.46	4:54	49.98
21-Jul-24	3.03	83.73	13.24	16.27	3:54	49.99
22-Jul-24	11.81	72.30	15.89	27.70	6:38	49.99
23-Jul-24	3.26	80.61	16.12	19.39	4:39	50.00
24-Jul-24	3.11	82.63	14.26	17.37	4:10	50.00
25-Jul-24	5.79	75.13	19.09	24.87	5:58	50.00
26-Jul-24	3.81	75.14	21.05	24.86	5:58	50.01
27-Jul-24	5.47	86.12	8.40	13.88	3:19	49.99
28-Jul-24	7.31	80.94	11.75	19.06	4:34	50.00
29-Jul-24	10.65	80.21	9.14	19.79	4:44	49.98
30-Jul-24	13.40	76.81	9.79	23.19	5:34	49.98
31-Jul-24	1.69	73.32	24.99	26.68	6:24	50.02
<b>July 2024</b>	<b>6.56</b>	<b>78.59</b>	<b>14.84</b>	<b>21.41</b>	<b>154:07</b>	<b>50.00</b>

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

क्र.स. 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	798	753	774	
2		दालीपरी DALIPLI	0%	100%	0%	0%	0	793	764	777	
3		गाया GAYA	0%	100%	0%	0%	0	793	746	768	
4		जेरत JEERAT	0%	100%	0%	0%	0	783	736	760	
5		झारसुगुडा JHARSUGUDA	0%	100%	0%	0%	1	803	770	785	
6		मिदिनापुर MEDINIPUR	0%	100%	0%	0%	0	796	746	769	
7		रांची RANCHI	0%	100%	0%	0%	0	794	755	776	
8		सासाराम SASARAM	0%	100%	0%	0%	0	784	744	764	
1	उत्तरी क्षेत्र NR	आगरा AGRA	0%	100%	0%	0%	0	801	750	777	
2		आगरा (फतेहाबाद) AGRA (FATEHABAD)	0%	100%	0%	0%	0	801	740	774	
3		अजमेर AJMER	0%	99%	1%	1%	10	804	752	785	
4		अलीगढ़ ALIGARH	0%	100%	0%	0%	0	801	742	772	
5		अनपरा सी ANPORA-C	0%	100%	0%	0%	0	782	757	768	
6		अनपरा डी ANPORA-D	0%	100%	0%	0%	0	778	753	765	
7		अंता ANTA	0%	100%	0%	0%	0	797	764	781	
8		बलिया BALLIA	0%	100%	0%	0%	0	793	735	764	
9		बारा BARA	0%	100%	0%	0%	0	780	751	766	
10		भादला BHADLA	0%	100%	0%	0%	1	802	741	778	
11		भादला-2 BHADLA-2	0%	100%	0%	0%	0	800	748	775	
12		भिवानी BHIWANI	0%	99%	1%	1%	8	805	748	779	
13		बिकानेर BIKANER	0%	100%	0%	0%	3	805	738	780	
14		बरेली BAREILLY	0%	100%	0%	0%	1	801	741	774	
15		चित्तौड़गढ़ CHITTORGARH	0%	99%	1%	1%	11	804	769	788	
16		फतेहगढ़-2 FATEHGARH-2	0%	100%	0%	0%	0	795	739	775	
17		फतेहपुर FATEHPUR	0%	100%	0%	0%	0	791	743	770	
18		घाटमपुर GHATAMPUR	0%	100%	0%	0%	2	804	751	781	
19		ग्रेंटर नोएडा GREATER NOIDA	0%	100%	0%	0%	1	806	744	776	
20		हापड़ HAPUR	0%	100%	0%	0%	0	800	733	770	
21		जवाहरपुर JAWAHARPUR	0%	100%	0%	0%	0	799	741	769	
22		झटिकां JHATIKARA	0%	100%	0%	0%	0	799	742	771	
23		कानपुर जेआइएस KANPUR GIS	0%	100%	0%	0%	0	798	740	769	
24		खैरी KHETRI	0%	100%	0%	0%	0	803	741	777	
25		कोटेश्वर KOTESHWAR	0%	100%	0%	0%	0	799	747	776	
26		ललितपुर LALITPUR	0%	100%	0%	0%	0	773	732	760	
27		लखनऊ LUCKNOW	0%	100%	0%	0%	0	795	739	769	
28		मैनपुरी MAINPURI	0%	100%	0%	0%	0	792	738	764	
29		मीरत MEERUT	0%	100%	0%	0%	2	806	739	778	
30		मीरत(UP) MEERUT (UP)	0%	100%	0%	0%	2	803	740	778	
31		मोगा MOGA	0%	99%	1%	1%	5	804	734	779	
32		ओबरा सी OBRA C	0%	100%	0%	0%	0	777	748	761	
33		उरई ORAI	0%	100%	0%	0%	2	804	751	781	
34		फागी PHAGI	0%	99%	1%	1%	5	803	756	781	
35		रामपुर RAMPUR	0%	99%	0%	1%	4	808	717	767	
36		उन्नाव UNNAO	0%	100%	0%	0%	0	784	731	760	
37		वाराणसी VARANASI	0%	100%	0%	0%	0	794	747	772	
1	पश्चिमी क्षेत्र WR	अकोला AKOLA	0%	100%	0%	0%	0	794	751	776	
2		औरंगाबाद AURANGABAD	0%	100%	0%	0%	0	796	752	777	
3		भोपाल (बीडीटीसीएल) BHOPAL (BDTCL)	0%	100%	0%	0%	0	789	754	771	
4		भुज BHUJ	0%	100%	0%	0%	0	795	747	780	
5		भुज-2 BHUJ-II	0%	100%	0%	0%	0	787	745	769	
6		बिलासपुर BILASPUR	0%	100%	0%	0%	0	787	758	770	
7		बीना BINA	0%	100%	0%	0%	0	802	752	778	
8		बनसकंठा BANASKANTHA	0%	100%	0%	0%	3	802	758	787	
9		चापा CHAMPA	0%	100%	0%	0%	0	803	764	781	
10		धुल (बीडीटीसीएल) DHULE (BDTCL)	0%	100%	0%	0%	0	797	756	777	
11		धर्मजयगढ़ DHARAMJAGARH	0%	100%	0%	0%	0	788	758	771	
12		रायपुर प्रूलिंग RAIPUR POOLING	0%	100%	0%	0%	0	791	758	778	
13		एकतनी EKTUNI	0%	100%	0%	0%	0	796	745	775	
14		गदरवाड़ा GADARWARA	0%	100%	0%	0%	2	803	766	787	
15		ग्वालियर GWALIOR	0%	100%	0%	0%	2	800	752	779	
16		इंदौर INDORE	0%	100%	0%	0%	0	789	752	771	
17		जबलपुर JABALPUR	0%	100%	0%	0%	3	806	760	785	
18		खडवा KHANDWA	0%	100%	0%	0%	0	791	756	773	
19		कोरडी KORADI	0%	100%	0%	0%	0	784	752	768	
20		लाकाडिया LAKADIYA	0%	100%	0%	0%	0	795	754	777	
21		रायगढ़ प्रूलिंग RAIGARH POOLING	0%	100%	0%	0%	0	793	767	780	
22		पड़ुच PADGHE	0%	100%	0%	0%	0	801	748	780	
23		परली PARLI	0%	97%	3%	3%	24	806	761	789	
24		पुणे PUNE	0%	100%	0%	0%	3	804	742	779	
25		राजानंदगाँव RAJANANDGAON	0%	100%	0%	0%	2	802	767	787	
26		सानान SASAN	0%	100%	0%	0%	0	794	760	778	
27		सातना SATNA	0%	100%	0%	0%	2	804	761	783	
28		सिवनी SEONI	0%	100%	0%	0%	0	796	762	779	
29		सीपट SIPAT	0%	100%	0%	0%	0	787	760	771	
30		सोलापुर SOLAPUR	0%	99%	1%	1%	5	803	761	786	
31		तिरुवा TIRORA	0%	100%	0%	0%	0	779	752	766	
32		तामनार TAMNAR	0%	100%	0%	0%	0	792	758	780	
33		वडोदरा VADODARA	0%	98%	2%	2%	13	809	755	778	
34		विंध्याचल प्रूलिंग VINHYACHAL PS	0%	100%	0%	0%	0	798	762	780	
35		वर्धा WARDHA	0%	100%	0%	0%	0	799	755	781	
36		वरार WARORA	0%	99%	1%	1%	4	802	759	787	
1		दक्षिणी क्षेत्र SR	अरियलर ARIYALUR	0%	95%	5%	5%	36	811	744	783
2	कडपा CUDDAPAH		0%	96%	4%	4%	27	812	755	786	
3	चिल्कुरीपेट CHILAKALURIPETA		0%	99%	1%	1%	9	809	754	782	
4	कनूल KURNOOL		0%	100%	0%	0%	1	803	748	782	
5	महेश्वरम MAHESWARAM		0%	96%	4%	4%	28	807	756	787	
6	निजामाबाद NIZAMABAD		0%	92%	8%	8%	63	807	752	789	
7	नेल्लूर प्रूलिंग NELLORE PS		0%	100%	0%	0%	0	794	750	776	
8	नॉर्थ चेन्नै प्रूलिंग NORTH CHENNAI PS		0%	85%	15%	15%	109	817	741	788	
9	रायचूर RAICHUR		0%	100%	0%	0%	0	800	748	780	
10	श्रीकाकुलम SRIKAKULAM		0%	99%	1%	1%	4	802	759	786	
11	तिरुवलम THIRUVALEM		0%	100%	0%	0%	0	798	745	777	
12	वेमगिरी VEMAGIRI		0%	94%	6%	6%	43	807	758	786	
13	वारंगल WARANGAL		0%	85%	15%	15%	109	817	741	788	
1	पूर्वोत्तर क्षेत्र NER		बालिपारा BALIPARA (400 kV)	0%	100%	0%	0%	0	417	396	405
2			बिस्वनाथ चरिआलि BISWANATH CHARIALI (400 kV)	0%	100%	0%	0%	0	414	399	406
3			बोंगागाँव BONGAIGAON (400 kV)	0%	100%	0%	0%	0	416	402	409
4			बोंगागाँव टीपीएस BONGAIGAON TPS (400 kV)	0%	100%	0%	0%	0	414	395	404
5			इम्फाल IMPHAL (400 kV)	0%	100%	0%	0%	0	412	396	402
6		बर्निहाट BYRNHAT (400 kV)	0%	100%	0%	0%	0	412	396	402	
7		कामेंग KAMENG (400 kV)	0%	100%	0%	0%	0	416	391	403	
8		अज़ारा AZARA (400 kV)	0%	100%	0%	0%	0	410	401	406	
9		मिसा MISA (400 kV)	0%	100%	0%	0%	0	415	394	403	
10		न्यू मारियानी NEW MARIANI (400 kV)	0%	100%	0%	0%	0	416	392	406	
11		न्यू कोहिमा NEW KOHIMA (400 kV)	0%	100%	0%	0%	0	417	395	407	
12		पालाताना PALATANA (400 kV)	0%	100%	0%	0%	0	417	398	407	
13		पूर्वकंचनबारी PK BARI (400 kV)	0%	100%	0%	0%	0	416	391	402	
14		रंगानादी RANGANADI (400 kV)	0%	100%	0%	0%	0	416	391	402	
15		सिलचर SILCHAR (400 kV)	0%	100%	0%	0%	0	418	398	407	
16		सुबानासिरी SUBANSIRI (400 kV)	0%	100%	0%	0%	0	417	396	405	
17		सुरज्यामनिगर SURJYAMANINAGAR (400 kV)	0%	100%	0%	0%	0	413	391	402	
18		थोबाल THOUBAL (400 kV)	0%	100%	0%	0%	0	415	384	401	

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

