

**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-Sep-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-Aug-24	2.21	76.46	21.33	23.54	5:39	50.01
02-Aug-24	1.89	79.33	18.78	20.67	4:57	50.01
03-Aug-24	2.84	66.25	30.91	33.75	8:06	50.03
04-Aug-24	4.43	69.29	26.27	30.71	7:22	50.03
05-Aug-24	7.13	70.37	22.50	29.63	7:06	50.00
06-Aug-24	5.93	75.30	18.77	24.70	5:55	50.00
07-Aug-24	5.97	71.28	22.74	28.72	6:53	50.01
08-Aug-24	4.00	81.24	14.76	18.76	4:30	50.00
09-Aug-24	3.43	77.72	18.85	22.28	5:20	50.01
10-Aug-24	4.07	74.75	21.18	25.25	6:03	50.00
11-Aug-24	1.82	64.86	33.32	35.14	8:26	50.04
12-Aug-24	8.60	79.79	11.61	20.21	4:51	49.99
13-Aug-24	21.48	68.90	9.62	31.10	7:27	49.95
14-Aug-24	6.91	83.67	9.42	16.33	3:55	49.98
15-Aug-24	6.47	71.06	22.47	28.94	6:56	50.01
16-Aug-24	3.33	76.26	20.41	23.74	5:41	50.01
17-Aug-24	2.73	80.10	17.16	19.90	4:46	50.01
18-Aug-24	3.14	78.95	17.92	21.05	5:03	50.01
19-Aug-24	5.67	76.33	18.00	23.67	5:40	50.00
20-Aug-24	2.72	74.25	23.03	25.75	6:10	50.01
21-Aug-24	3.04	78.59	18.37	21.41	5:08	50.01
22-Aug-24	5.06	78.60	16.34	21.40	5:08	50.00
23-Aug-24	0.29	64.48	35.23	35.52	8:31	50.04
24-Aug-24	1.83	82.78	15.39	17.22	4:08	50.00
25-Aug-24	1.16	60.87	37.97	39.13	9:23	50.07
26-Aug-24	6.53	69.55	23.92	30.45	7:18	50.00
27-Aug-24	1.20	78.11	20.68	21.89	5:15	50.02
28-Aug-24	3.18	79.22	17.59	20.78	4:59	50.01
29-Aug-24	4.57	75.39	20.03	24.61	5:54	50.01
30-Aug-24	6.50	78.91	14.58	21.09	5:03	50.00
31-Aug-24	6.33	82.71	10.96	17.29	4:09	49.98
<b>August 2024</b>	<b>4.60</b>	<b>74.76</b>	<b>20.64</b>	<b>25.24</b>	<b>181:45</b>	<b>50.01</b>

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

विद्युत विभव रूपरेखा माह - अगस्त 2024

VOLTAGE PROFILE - August 2024

Date of reporting: 05-Sep-24

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	792	745	772	
2		दालिपरी DALIPLI	0%	100%	0%	0%	0	790	762	776	
3		गाया GAYA	0%	100%	0%	0%	0	792	736	763	
4		जीरात JEERAT	0%	100%	0%	0%	0	794	739	764	
5		झारसगढ़ा JHARSUGUDA	0%	100%	0%	0%	0	798	768	784	
6		मिदिनापुर MEDINIPUR	0%	100%	0%	0%	0	794	749	771	
7		राँची RANCHI	0%	100%	0%	0%	0	794	763	781	
8		सासाराम SASARAM	0%	100%	0%	0%	1	802	738	767	
1	उत्तरी क्षेत्र NR	आगरा AGRA	0%	100%	0%	0%	0	800	748	780	
2		आगरा (फतेहाबाद) AGRA (FATEHABAD)	0%	100%	0%	0%	0	801	728	773	
3		अजमेर AJMER	0%	99%	1%	1%	5	803	750	787	
4		अलीगढ़ ALIGARH	0%	100%	0%	0%	0	796	740	772	
5		अनपरा सी ANPARA-C	0%	100%	0%	0%	0	785	754	770	
6		अनपरा डी ANPARA-D	0%	100%	0%	0%	0	783	753	768	
7		अंता ANTA	0%	100%	0%	0%	0	794	762	780	
8		बलिया BALLIA	0%	100%	0%	0%	0	789	731	766	
9		बारा BARA	0%	100%	0%	0%	0	793	753	770	
10		भादला BHADLA	0%	100%	0%	0%	0	795	748	780	
11		भादला-2 BHADLA-2	0%	100%	0%	0%	0	800	750	782	
12		भिवानी BHIWANI	0%	100%	0%	0%	0	798	750	781	
13		बिकानेर BIKANER	0%	100%	0%	0%	0	799	742	782	
14		बरौली BAREILLY	0%	100%	0%	0%	2	805	738	774	
15		चित्तौड़गढ़ CHITTORGARH	0%	98%	2%	2%	13	805	766	787	
16		फतेहगढ़-2 FATEHGARH-2	0%	100%	0%	0%	0	794	749	777	
17		फतेहपुर FATEHPUR	0%	100%	0%	0%	0	797	742	773	
18		घाटमपुर GHATAMPUR	0%	100%	0%	0%	0	794	762	780	
19		ग्रेंटर नोएडा GREATER NOIDA	0%	100%	0%	0%	1	804	746	776	
20		हापड़ HAPUR	0%	100%	0%	0%	0	801	736	770	
21		जवाहरपुर JAWAHARPUR	0%	100%	0%	0%	0	799	737	767	
22		झाटिकां JHATIKARA	0%	100%	0%	0%	0	794	742	773	
23		कानपुर जेआइएस KANPUR GIS	0%	100%	0%	0%	0	796	742	773	
24		खैतीर KHETRI	0%	100%	0%	0%	0	799	735	779	
25		कोटेश्वर KOTESHWAR	0%	100%	0%	0%	0	797	734	771	
26		ललितपुर LALITPUR	0%	100%	0%	0%	0	777	743	760	
27		लखनऊ LUCKNOW	0%	100%	0%	0%	0	796	735	768	
28		मैनपुरी MAINPURI	0%	100%	0%	0%	0	794	732	763	
29		मीरत MEERUT	0%	100%	0%	0%	0	799	749	777	
30		मीरत(UP) MEERUT (UP)	0%	100%	0%	0%	1	801	737	771	
31		मोगा MOGA	0%	100%	0%	0%	0	799	735	761	
32		ओबरा सी OBRA C	0%	100%	0%	0%	0	782	748	786	
33		उरई ORAI	0%	99%	1%	1%	7	806	749	785	
34		फागी PHAGI	0%	100%	0%	0%	0	801	756	783	
35		रामपुर RAMPUR	0%	100%	0%	0%	0	802	734	769	
36		उन्नाव UNNAO	0%	100%	0%	0%	0	789	734	763	
37		वाराणसी VARANASI	0%	100%	0%	0%	0	793	747	775	
1	पश्चिमी क्षेत्र WR	अकोला AKOLA	0%	100%	0%	0%	0	796	755	775	
2		औरंगाबाद AURANGABAD	0%	100%	0%	0%	0	799	745	775	
3		भोपाल (बीडीटीसीएल) BHOPAL (BDTCL)	0%	100%	0%	0%	0	789	753	775	
4		भुज BHUJ	0%	100%	0%	0%	0	794	755	779	
5		भुज-2 BHUJ-II	0%	100%	0%	0%	0	786	744	771	
6		बिलासपुर BILASPUR	0%	100%	0%	0%	0	789	757	772	
7		बीना BINA	0%	100%	0%	0%	0	799	753	782	
8		बनसकंठा BANASKANTHA	0%	99%	1%	1%	6	803	761	785	
9		चापा CHAMPA	0%	100%	0%	0%	3	804	757	785	
10		धुले (बीडीटीसीएल) DHULE (BDTCL)	0%	100%	0%	0%	0	793	752	777	
11		धर्मजगढ़ DHARAMJAGARH	0%	100%	0%	0%	0	784	754	770	
12		रायपुर प्रूलिंग RAIPUR POOLING	0%	100%	0%	0%	0	791	761	778	
13		एकतनी EKTUNI	0%	100%	0%	0%	0	795	751	776	
14		गदरवाड़ा GADARWARA	0%	99%	1%	1%	5	803	765	788	
15		ग्वालियर GWALIOR	0%	100%	0%	0%	1	802	752	783	
16		इंदौर INDORE	0%	100%	0%	0%	0	789	752	773	
17		जबलपुर JABALPUR	0%	99%	1%	1%	8	804	758	788	
18		खडवा KHANDWA	0%	100%	0%	0%	0	790	754	775	
19		कोरडी KORADI	0%	100%	0%	0%	0	781	750	765	
20		लाकाडिया LAKADIYA	0%	99%	1%	1%	4	802	756	783	
21		रायगढ़ प्रूलिंग RAIGARH POOLING	0%	100%	0%	0%	0	794	764	781	
22		पड़घे PADGHE	0%	100%	0%	0%	3	802	748	779	
23		परली PARLI	0%	99%	1%	1%	4	803	751	785	
24		पुणे PUNE	0%	100%	0%	0%	2	804	740	779	
25		राजानंदगाँव RAJANANDGAON	0%	99%	1%	1%	8	808	762	787	
26		सासन SASAN	0%	100%	0%	0%	0	793	760	779	
27		सातना SATNA	0%	99%	1%	1%	9	805	763	787	
28		सिवनी SEONI	0%	100%	0%	0%	1	802	761	782	
29		सीपत SIPAT	0%	100%	0%	0%	0	787	761	773	
30		सोलापुर SOLAPUR	0%	100%	0%	0%	0	800	753	783	
31		तिरुवां TIRORA	0%	100%	0%	0%	0	774	749	760	
32		तामनार TAMNAR	0%	100%	0%	0%	0	794	765	781	
33		वडोदरा VADODARA	0%	100%	0%	0%	1	804	753	779	
34		विंध्याचल प्रूलिंग VINHYACHAL PS	0%	100%	0%	0%	0	796	763	783	
35		वर्धा WARDHA	0%	100%	0%	0%	3	807	748	782	
36		वरार WARORA	0%	100%	0%	0%	1	801	742	785	
1		दक्षिणी क्षेत्र SR	अरियलर ARIYALUR	0%	96%	4%	4%	30	806	740	787
2	कडपा CUDDAPAH		0%	98%	2%	2%	12	805	755	785	
3	चिल्कुरीपेट CHILAKALURIPETA		0%	99%	1%	1%	6	802	738	777	
4	कनूल KURNOOL		0%	100%	0%	0%	0	798	749	780	
5	महेश्वरम MAHESWARAM		0%	99%	1%	1%	10	803	742	784	
6	निजामाबाद NIZAMABAD		0%	92%	8%	8%	56	808	741	789	
7	नेल्लूर प्रूलिंग NELLORE PS		0%	100%	0%	0%	0	793	754	776	
8	नॉर्थ चेन्नै प्रूलिंग NORTH CHENNAI PS		0%	100%	0%	0%	2	806	755	777	
9	रायचूर RAICHUR		0%	100%	0%	0%	0	796	750	779	
10	श्रीकाकुलम SRIKAKULAM		0%	97%	3%	3%	19	806	744	780	
11	तिरुवलम THIRUVALEM		0%	100%	0%	0%	0	800	746	772	
12	वेमगिरी VEMAGIRI		0%	93%	7%	7%	51	809	748	781	
13	वारंगल WARANGAL		0%	100%	0%	0%	0	800	758	775	
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	411	400	406	
9		मिसा MISA (400 kV)	0%	100%	0%	0%	0	415	394	404	
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	396	406	
12		पालाताना PALATANA (400 kV)	0%	100%	0%	0%	0	415	398	408	
13		पूर्वकंचनबारी PK BARI (400 kV)	0%	100%	0%	0%	0	414	393	403	
14		रंगानादी RANGANADI (400 kV)	0%	100%	0%	0%	0	416	391	403	
15		सिलचर SILCHAR (400 kV)	0%	100%	0%	0%	0	417	399	408	
16		सुबानासिरी SUBANSIRI (400 kV)	0%	100%	0%	0%	0	415	384	401	
17		सुज्यामनिगर SURJYAMANINAGAR (400 kV)	0%	100%	0%	0%	0	413	392	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.

# Monthly All India Angular spread w.r.to. Vindhyachal\_Aug-2024

- AGRA7\_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
- LKNOW\_PG
- MOGA\_PG
- PATNA\_PG
- PURNW\_PG
- RHHNV\_PG
- SILCR\_PG
- TALCH\_PG
- TCHRN\_PG
- VINDP\_PG
- VSTPS\_GS

