

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

Date: **05-Jul-2024**

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

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

S.No.	Corridor	Number of Blocks Violated	Number of Hours Violated	%Violation
1	WR-NR	206	51.50	7.15
2	ER-NR	0	0.00	0.00
3	Import of NR	204	51.00	7.08
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	73	18.25	2.53
2	ER-NR	0	0.00	0.00
3	Import of NR	40	10.00	1.39
4	NEW-SR	0	0.00	0.00
4	NER Import	8	2.00	0.28

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-Jul-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-Jun-24	4.05	85.20	10.75	14.80	3:33	49.99
02-Jun-24	6.01	88.65	5.35	11.35	2:43	49.98
03-Jun-24	4.14	80.01	15.84	19.99	4:47	50.01
04-Jun-24	4.03	78.89	17.08	21.11	5:03	50.01
05-Jun-24	3.53	69.59	26.88	30.41	7:17	50.02
06-Jun-24	2.57	71.59	25.84	28.41	6:49	50.02
07-Jun-24	2.09	81.94	15.96	18.06	4:20	50.01
08-Jun-24	2.89	90.46	6.64	9.54	2:17	49.99
09-Jun-24	7.06	80.20	12.74	19.80	4:45	49.99
10-Jun-24	3.60	72.80	23.60	27.20	6:31	50.02
11-Jun-24	0.47	73.41	26.11	26.59	6:22	50.03
12-Jun-24	0.73	86.24	13.03	13.76	3:18	50.01
13-Jun-24	0.39	82.73	16.88	17.27	4:08	50.01
14-Jun-24	3.53	79.04	17.43	20.96	5:01	50.00
15-Jun-24	16.39	77.95	5.66	22.05	5:17	49.97
16-Jun-24	7.91	83.66	8.44	16.34	3:55	49.99
17-Jun-24	3.72	83.61	12.67	16.39	3:56	50.00
18-Jun-24	1.85	71.61	26.54	28.39	6:48	50.02
19-Jun-24	0.10	66.55	33.34	33.45	8:01	50.03
20-Jun-24	6.31	71.74	21.96	28.26	6:47	50.01
21-Jun-24	4.22	79.70	16.08	20.30	4:52	50.01
22-Jun-24	9.97	73.52	16.52	26.48	6:21	49.99
23-Jun-24	7.96	76.83	15.21	23.17	5:33	49.99
24-Jun-24	8.43	77.81	13.76	22.19	5:19	49.99
25-Jun-24	5.81	82.23	11.96	17.77	4:15	49.99
26-Jun-24	2.07	79.72	18.21	20.28	4:52	50.01
27-Jun-24	2.93	79.02	18.06	20.98	5:02	50.00
28-Jun-24	3.22	82.04	14.75	17.96	4:18	50.00
29-Jun-24	3.15	84.41	12.44	15.59	3:44	50.00
30-Jun-24	5.87	84.17	9.97	15.83	3:48	49.99
<b>June 2024</b>	<b>4.50</b>	<b>79.18</b>	<b>16.32</b>	<b>20.82</b>	<b>149:55</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	उपकेन्द्र 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	791	755	772	
2		दालिसरी DALIPIALI	0%	100%	0%	0%	0	791	771	779	
3		गाया GAYA	0%	100%	0%	0%	0	791	748	769	
4		जेरत JEERAT	0%	100%	0%	0%	1	801	737	771	
5		झारसगुड़ा JHARSUGUDA	0%	100%	0%	0%	0	802	776	787	
6		मिदिनापुर MEDINIPUR	0%	100%	0%	0%	1	803	746	775	
7		रांची RANCHI	0%	100%	0%	0%	0	798	756	780	
8		सासाराम SASARAM	0%	100%	0%	0%	0	786	744	766	
1	उत्तरी क्षेत्र NR	आगरा AGRA	0%	100%	0%	0%	0	800	734	775	
2		आगरा (फतेहाबाद) AGRA (FATEHABAD)	0%	100%	0%	0%	0	804	729	771	
3		अजमेर AJMER	0%	99%	1%	1%	8	810	748	782	
4		अलीगढ़ ALIGARH	0%	100%	0%	0%	0	807	725	770	
5		अनपरा सी ANPARA-C	0%	100%	0%	0%	0	780	758	767	
6		अनपरा डी ANPARA-D	0%	100%	0%	0%	0	777	756	764	
7		अंता ANTA	0%	100%	0%	0%	0	801	740	776	
8		बलिया BALLIA	0%	100%	0%	0%	0	786	734	762	
9		बारा BARA	0%	100%	0%	0%	0	782	745	766	
10		भादला BHADLA	0%	100%	0%	0%	0	797	717	774	
11		भादला-2 BHADLA-2	0%	100%	0%	0%	0	797	737	778	
12		भिवानी BHIWANI	0%	100%	0%	0%	1	813	717	775	
13		बिकानेर BIKANER	0%	100%	0%	0%	0	799	725	776	
14		बरेली BAREILLY	0%	99%	1%	1%	7	810	711	772	
15		चित्तौड़गढ़ CHITTORGARH	0%	99%	1%	1%	8	804	762	786	
16		फतेहगढ़-2 FATEHGARH-2	0%	100%	0%	0%	0	795	723	775	
17		फतेहपुर FATEHPUR	0%	100%	0%	0%	0	796	738	772	
18		घाटमपुर GHATAMPUR	0%	0%	0%	0%	0	0	0	0	
19		ग्रैंटर नोएडा GREATER NOIDA	0%	100%	0%	0%	2	809	724	775	
20		हापड़ HAPUR	0%	100%	0%	0%	1	806	719	769	
21		जवाहरपुर JAWAHARPUR	0%	100%	0%	0%	0	799	731	771	
22		झटिकां JHATIKARA	0%	100%	0%	0%	1	804	708	767	
23		कानपुर जेआइएस KANPUR GIS	0%	100%	0%	0%	0	796	731	770	
24		खैरती KHETRI	0%	100%	0%	0%	2	803	714	771	
25		कोटेश्वर KOTESHWAR	0%	100%	0%	0%	2	807	723	775	
26		ललितपुर LALITPUR	0%	100%	0%	0%	0	783	729	758	
27		लखनऊ LUCKNOW	0%	100%	0%	0%	0	798	731	766	
28		मैनपुरी MAINPURI	0%	100%	0%	0%	0	795	724	765	
29		मेरठ MEERUT	0%	100%	0%	0%	1	808	714	775	
30		मेरठ(UP) MEERUT (UP)	0%	100%	0%	0%	3	807	722	770	
31		मोगा MOGA	0%	100%	0%	0%	1	810	717	776	
32		ओबरा सी OBRA C	0%	100%	0%	0%	0	777	750	760	
33		उरई ORAI	0%	100%	0%	0%	1	803	735	779	
34	फागी PHAGI	0%	100%	0%	0%	1	810	701	777		
35	रामपुर RAMPUR	0%	100%	0%	0%	0	804	722	771		
36	उन्नाव UNNAO	0%	100%	0%	0%	0	790	735	758		
37	वाराणसी VARANASI	0%	100%	0%	0%	0	789	743	772		
1	पश्चिमी क्षेत्र WR	अकोला AKOLA	0%	100%	0%	0%	0	792	752	773	
2		औरंगाबाद AURANGABAD	0%	100%	0%	0%	0	800	755	780	
3		भोपाल (बीडीटीसीएल) BHOPAL (BDTCL)	0%	100%	0%	0%	0	787	747	771	
4		भुज BHUJ	0%	100%	0%	0%	0	796	752	780	
5		भुज-2 BHUJ-II	0%	100%	0%	0%	0	790	745	772	
6		बिलासपुर BILASPUR	0%	100%	0%	0%	0	782	756	768	
7		बीना BINA	0%	100%	0%	0%	0	797	742	779	
8		बनसकंठा BANASKANTHA	0%	100%	0%	0%	1	802	755	785	
9		चापा CHAMPA	0%	99%	1%	1%	8	807	757	778	
10		धुले (बीडीटीसीएल) DHULE (BDTCL)	0%	100%	0%	0%	0	793	755	777	
11		धर्मजयगढ़ DHARAMJAGARH	0%	100%	0%	0%	0	784	758	768	
12		रायपुर प्रूलिंग RAIPUR POOLING	0%	100%	0%	0%	0	794	770	780	
13		एकतनी EKTUNI	0%	100%	0%	0%	0	791	745	773	
14		गदरवाड़ा GADARWARA	0%	100%	0%	0%	0	801	764	786	
15		ग्वालियर GWALIOR	0%	100%	0%	0%	0	802	736	777	
16		इंदौर INDORE	0%	100%	0%	0%	0	791	749	771	
17		जबलपुर JABALPUR	0%	100%	0%	0%	2	802	753	785	
18		खडवा KHANDWA	0%	100%	0%	0%	0	792	754	774	
19		कोरडी KORADI	0%	100%	0%	0%	0	781	749	770	
20		लाकाडिया LAKADIYA	0%	100%	0%	0%	3	804	760	786	
21		रायगढ़ प्रूलिंग RAIGARH POOLING	0%	100%	0%	0%	0	795	769	781	
22		पड़ुच PADGHE	0%	100%	0%	0%	2	803	746	779	
23		परली PARLI	0%	97%	3%	3%	23	806	757	789	
24		पुणे PUNE	0%	100%	0%	0%	2	803	741	777	
25		राजानंदगाँव RAJANANDGAON	0%	99%	1%	1%	4	803	775	787	
26		सासन SASAN	0%	100%	0%	0%	0	788	755	776	
27		सातना SATNA	0%	100%	0%	0%	0	799	752	782	
28		सिवनी SEONI	0%	100%	0%	0%	0	795	758	779	
29		सीपट SIPAT	0%	100%	0%	0%	0	782	759	769	
30		सोलापुर SOLAPUR	0%	97%	3%	3%	23	806	756	789	
31		तिरुवांदा TIRORA	0%	100%	0%	0%	0	778	751	767	
32		तामनार TAMNAR	0%	100%	0%	0%	0	795	769	781	
33		वडोदरा VADODARA	0%	100%	0%	0%	1	801	759	784	
34		विन्ध्याचल प्रूलिंग VINHYACHAL PS	0%	100%	0%	0%	0	792	758	779	
35		वर्धा WARDHA	0%	100%	0%	0%	3	803	765	783	
36		वरार WARORA	0%	100%	0%	0%	0	801	765	785	
1	दक्षिणी क्षेत्र SR	अरियलर ARIYALUR	0%	100%	0%	0%	0	799	740	773	
2		कड्डा CUDDAPAH	0%	93%	7%	7%	54	810	757	788	
3		चिल्कुरपेट CHILAKALURIPETA	0%	99%	1%	1%	6	811	754	784	
4		कनूल KURNOOL	0%	99%	1%	1%	5	806	756	782	
5		महेश्वरम MAHESWARAM	0%	94%	6%	6%	45	812	766	789	
6		निजामाबाद NIZAMABAD	0%	90%	10%	10%	71	814	762	792	
7		नेल्लूर प्रूलिंग NELLORE PS	0%	100%	0%	0%	0	796	754	775	
8		नॉर्थ चेन्नै प्रूलिंग NORTH CHENNAI PS	0%	100%	0%	0%	3	814	730	775	
9		रायचूर RAICHUR	0%	100%	0%	0%	1	803	756	782	
10		श्रीकाकुलम SRIKAKULAM	0%	99%	1%	1%	5	803	758	784	
11		तिरुवलम THIRUVALEM	0%	100%	0%	0%	0	796	745	773	
12		वैमगिरी VEMAGIRI	0%	97%	3%	3%	22	808	716	784	
13		वारंगल WARANGAL	0%	96%	4%	4%	28	807	766	789	
1		पूर्वोत्तर क्षेत्र NER	बालिपारा BALIPARA (400 kV)	0%	0%	0%	0%	0	0	0	0
2			बिस्वनाथ चरिआलि BISWANATH CHARIALI (400 kV)	0%	100%	0%	0%	0	414	392	404
3			बागाईगांव BONGAIGAON (400 kV)	0%	100%	0%	0%	0	413	398	406
4			बागाईगांव टीपीएस BONGAIGAON TPS (400 kV)	0%	100%	0%	0%	0	414	399	407
5			इम्फाल IMPHAL (400 kV)	0%	100%	0%	0%	0	417	393	403
6	बर्निहाट BYRNIHAT (400 kV)		0%	0%	0%	0%	0	0	0	0	
7	कामेंग KAMENG (400 kV)		0%	100%	0%	0%	0	410	392	402	
8	अज़ारा AZARA (400 kV)		0%	100%	0%	0%	0	410	401	406	
9	मिसा MISA (400 kV)		0%	100%	0%	0%	0	412	394	402	
10	न्यू मारियानी NEW MARIANI (400 kV)		0%	100%	0%	0%	0	415	396	405	
11	न्यू कोहिमा NEW KOHIMA (400 kV)		0%	100%	0%	0%	0	419	396	406	
12	पालाताना PALATANA (400 kV)		0%	100%	0%	0%	0	415	401	406	
13	पुबेकचनबारी PK BARI (400 kV)		0%	100%	0%	0%	0	410	393	401	
14	रंगानादी RANGANADI (400 kV)		0%	100%	0%	0%	0	419	388	409	
15	सिलचर SILCHAR (400 kV)		0%	100%	0%	0%	0	417	398	407	
16	सुबानासिरी SUBANSIRI (400 kV)		0%	0%	0%	0%	0	0	0	0	
17	सुज्यामनिगर SURJYAMANINAGAR (400 kV)		0%	100%	0%	0%	0	411	369	401	
18	थोउबाल 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 Angular spread w.r.to Vindhyachal\_JUNE-2024

- AGRA\_PG ALIPU\_PG BACHU\_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 SILCR\_PG TALCH\_PG TCHRN\_PG VINDP\_PG

