

**POWER SYSTEM OPERATION CORPORATION LIMITED**  
**NATIONAL LOAD DESPATCH CENTRE**  
**NEW DELHI**

Date: 05-Aug-2022

**System Reliability Indices Report for the month of July 2022**

**Percentage (%) of times ATC 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	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	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	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 2022

Date of reporting:

05-Aug-22

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-22	10.57	69.73	19.70	30.27	7:15	50.00
02-Jul-22	11.74	81.60	6.67	18.40	4:25	49.98
03-Jul-22	4.11	65.59	30.30	34.41	8:15	50.03
04-Jul-22	20.58	69.55	9.87	30.45	7:18	49.96
05-Jul-22	8.96	72.67	18.37	27.33	6:33	50.00
06-Jul-22	8.36	74.50	17.14	25.50	6:07	50.00
07-Jul-22	9.34	77.26	13.40	22.74	5:27	49.99
08-Jul-22	2.72	73.00	24.28	27.00	6:28	50.02
09-Jul-22	4.81	70.35	24.84	29.65	7:07	50.02
10-Jul-22	5.44	66.77	27.79	33.23	7:58	50.02
11-Jul-22	9.44	67.99	22.57	32.01	7:41	50.00
12-Jul-22	6.45	74.91	18.65	25.09	6:01	50.00
13-Jul-22	4.83	80.07	15.10	19.93	4:47	50.01
14-Jul-22	11.47	65.74	22.79	34.26	8:13	50.00
15-Jul-22	15.02	70.97	14.00	29.03	6:58	49.98
16-Jul-22	6.56	76.33	17.11	23.67	5:40	50.00
17-Jul-22	9.99	70.43	19.58	29.57	7:05	50.00
18-Jul-22	18.85	76.27	4.87	23.73	5:41	49.96
19-Jul-22	9.35	78.33	12.31	21.67	5:12	49.99
20-Jul-22	10.25	63.17	26.57	36.83	8:50	50.00
21-Jul-22	3.50	69.20	27.30	30.80	7:23	50.02
22-Jul-22	1.94	84.02	14.04	15.98	3:50	50.01
23-Jul-22	7.86	72.62	19.53	27.38	6:34	50.00
24-Jul-22	3.55	75.16	21.28	24.84	5:57	50.02
25-Jul-22	2.44	72.40	25.16	27.60	6:37	50.02
26-Jul-22	8.28	83.97	7.75	16.03	3:50	49.99
27-Jul-22	7.71	78.36	13.94	21.64	5:11	50.00
28-Jul-22	12.09	78.06	9.85	21.94	5:16	49.99
29-Jul-22	4.72	81.18	14.10	18.82	4:31	50.00
30-Jul-22	1.40	69.50	29.10	30.50	7:19	50.03
31-Jul-22	0.24	67.41	32.35	32.59	7:49	50.03
<b>July 2022</b>	<b>7.83</b>	<b>73.45</b>	<b>18.72</b>	<b>26.55</b>	<b>197:29</b>	<b>50.00</b>

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

विद्युत विभव रूपरेखा माह - जुलाई 2022

VOLTAGE PROFILE - July 2022

Date of reporting: 05-Aug-22

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	अंगल ANGL	0%	100%	0%	0%	0	797	758	785
2		दालिपली DARLIPALI	0%	100%	0%	0%	0	790	769	782
3		गया GAYA	0%	100%	0%	0%	0	785	746	766
4		जेरत JERAT	0%	100%	0%	0%	0	792	745	767
5		झारसुगडा JHARSUGUDA	0%	100%	0%	0%	2	801	777	791
6		मिदनापुर MEDINIPUR	0%	100%	0%	0%	0	792	754	772
7		रंची RANCHI	0%	100%	0%	0%	0	795	768	783
8		ससाराम SASARAM	0%	100%	0%	0%	0	797	740	772
1	उत्तरी क्षेत्र NR	आगरा AGRA	0%	100%	0%	0%	0	800	751	779
2		आगरा (फतेहाबाद) AGRA (FATEHABAD)	0%	100%	0%	0%	0	795	745	772
3		अजमेर AJMER	0%	100%	0%	0%	1	803	755	780
4		अलीगढ़ ALIGARH	0%	100%	0%	0%	0	798	746	776
5		अनूपरा सी ANPARA-C	0%	100%	0%	0%	0	783	760	770
6		अनूपरा डी ANPARA-D	0%	100%	0%	0%	0	780	755	766
7		अंता ANTA	0%	100%	0%	0%	0	796	761	780
8		बलिया BALLIA	0%	100%	0%	0%	0	794	742	769
9		बारा BARA	0%	100%	0%	0%	0	792	752	767
10		भादला BHADLA	0%	100%	0%	0%	0	805	740	774
11		भादला-2 BHADLA-2	0%	100%	0%	0%	2	807	743	776
12		बिहारी BHIWANI	0%	100%	0%	0%	0	800	749	777
13		बीकानेर BIKANER	0%	100%	0%	0%	1	807	747	777
14		बरेली BAREILLY	0%	99%	1%	1%	6	807	742	775
15		चित्तौड़गढ़ CHITTORGARH	0%	99%	1%	1%	6	806	761	781
16		फतेहगढ़-2 FATEHGARH-2	0%	100%	0%	0%	1	809	744	774
17		फतेहपुर FATEHPUR	0%	100%	0%	0%	0	794	742	768
18		ग्रेटर नोएडा GREATER NOIDA	0%	100%	0%	0%	1	801	746	779
19		हापड़ HAPUR	0%	100%	0%	0%	0	802	736	774
20		जावाहरपुर JAWAHARPUR	0%	0%	0%	0%	0	0	0	0
21		झटिकरा JHATIKARA	0%	100%	0%	0%	0	793	743	771
22		कानपुर जीआइएस KANPUR GIS	0%	100%	0%	0%	0	793	741	770
23		खैरती KHETRI	0%	100%	0%	0%	0	798	745	775
24		कोटेश्वर KOTESHWAR	0%	100%	0%	0%	0	800	742	773
25		लालितपुर LALITPUR	0%	100%	0%	0%	0	774	743	759
26		लुक्नो LUCKNOW	0%	100%	0%	0%	0	801	740	772
27		मैनपुरी MAINPURI	0%	100%	0%	0%	0	801	753	778
28		मेरठ MEERUT	0%	100%	0%	0%	0	801	742	769
29		मोहा MOGA	0%	100%	0%	0%	0	798	737	772
30		ओबरा सी OBRA C	0%	0%	0%	0%	0	0	0	0
31		उई ORAI	0%	99%	1%	1%	6	805	756	785
32		फागी PHAGI	0%	100%	0%	0%	0	803	753	780
33		उन्नाव UNNAO	0%	100%	0%	0%	0	792	735	761
34		वाराणसी VARANASI	0%	100%	0%	0%	0	791	753	773
1	पश्चिमी क्षेत्र WR	अकोला AKOLA	0%	100%	0%	0%	0	797	754	777
2		औरंगाबाद AURANGABAD	0%	100%	0%	0%	0	796	738	776
3		भोपाल (बीकेंटीसीरल) BHOPAL (BDTCL)	0%	100%	0%	0%	0	788	750	770
4		भुज BHUJ	0%	100%	0%	0%	0	796	744	769
5		भुज-2 BHUJ-II	0%	100%	0%	0%	0	797	739	766
6		बिलासपुर BILASPUR	0%	100%	0%	0%	0	790	763	777
7		बीना BINA	0%	100%	0%	0%	0	801	764	783
8		बनसकण्ठ BANASKANTHA	0%	100%	0%	0%	2	804	761	781
9		चापा CHAMPA	0%	97%	3%	3%	23	806	761	790
10		धुले (बीकेंटीसीरल) DHULE (BDTCL)	0%	100%	0%	0%	0	795	748	776
11		धरमचंद धरमजगारि DHARAMCHAND DHARAMJAGARH	0%	100%	0%	0%	0	784	760	774
12		रायपुर पुलिंग RAIPUR POOLING	0%	100%	0%	0%	0	795	767	782
13		एकतुनी EKTUNI	0%	100%	0%	0%	0	797	751	777
14		गडरवाड़ा GADARWARA	0%	100%	0%	0%	2	800	770	785
15		गवालियर GWALIOR	0%	100%	0%	0%	2	802	756	783
16		इंदौर INDORE	0%	100%	0%	0%	0	788	749	771
17		जबलपुर JABALPUR	0%	100%	0%	0%	3	802	768	785
18		खडवा KHANDWA	0%	100%	0%	0%	0	790	745	773
19		कोरडी KORADI	0%	100%	0%	0%	0	782	748	767
20		रायगढ़ पुलिंग RAIGARH POOLING	0%	100%	0%	0%	0	800	767	785
21		पडघे PADGHE	0%	100%	0%	0%	1	806	747	778
22		परली PARLI	0%	97%	3%	3%	21	808	754	787
23		पुणे PUNE	0%	99%	0%	0%	0	800	744	779
24		राजनन्दागांव RAJNANDGAON	0%	97%	3%	3%	21	807	771	792
25	सासन SASAN	0%	100%	0%	0%	0	792	764	777	
26	सातना SATNA	0%	99%	1%	1%	6	805	767	785	
27	सिवनी SEONI	0%	100%	0%	0%	0	799	758	782	
28	सीतल SIPTAL	0%	100%	0%	0%	0	790	767	779	
29	सोलापुर SOLAPUR	0%	99%	1%	1%	7	804	763	784	
30	तिरुंगा TIRORA	0%	100%	0%	0%	0	776	746	763	
31	तामनार TAMNAR	0%	100%	0%	0%	0	797	771	787	
32	वडीदा VADODARA	0%	100%	0%	0%	0	799	755	777	
33	विन्ध्यचल पुलिंग VINDHYACHAL PS	0%	100%	0%	0%	0	796	767	780	
34	वर्धा WARDHA	0%	100%	0%	0%	0	801	745	783	
35	वरोरा WARDORA	0%	100%	0%	0%	1	803	757	785	
1	दक्षिणी क्षेत्र SR	कडपा CUDDAPAH	0%	92%	8%	8%	61	811	746	784
2		चिल्कलुरिपेट CHILKALURIPETA	0%	99%	1%	1%	8	812	737	774
3		कूर्नूल KURNOOL	0%	100%	0%	0%	0	799	738	774
4		महेश्वरम MAHESWARAM	0%	99%	1%	1%	8	804	730	777
5		निजामाबाद NIZAMABAD	0%	90%	10%	10%	69	810	739	786
6		नेल्लूर पुलिंग NELLORE PS	0%	100%	0%	0%	1	804	742	774
7		रायचूर RAICHUR	0%	100%	0%	0%	2	802	742	779
8		श्रीकाकुलम SRIKAKULAM	0%	100%	0%	0%	2	802	745	783
9		तिरुवल्लम THIRUVALEM	0%	100%	0%	0%	0	796	729	766
10		वेमगिरी VEMAGIRI	0%	99%	1%	1%	6	804	744	782
1	पूर्वोत्तरी क्षेत्र NER	बालिपारा BALIPARA (400 kV)	0%	0%	0%	0%	0	0	0	0
2		बिस्वनाथ चरिआल BISWANATH CHARIALI (400 kV)	0%	100%	0%	0%	0	417	397	406
3		बोंगाईगांव BONGAIGAON (400 kV)	0%	100%	0%	0%	0	414	399	407
4		बोंगाईगांव टीपीएस BONGAIGAON TPS (400 kV)	0%	100%	0%	0%	0	418	401	410
5		इम्फाल IMPHAL (400 kV)	0%	100%	0%	0%	0	419	397	406
6		बयर्निहाट BYRNIHAT (400 kV)	0%	0%	0%	0%	0	0	0	0
7		कामेंग KAMENG (400 kV)	0%	100%	0%	0%	0	414	396	403
8		अज़ारा AZARA (400 kV)	0%	100%	0%	0%	0	411	399	405
9		मिशा MISA (400 kV)	0%	100%	0%	0%	0	417	392	405
10		न्यू मरियानी NEW MARIANI (400 kV)	0%	100%	0%	0%	0	416	398	405
11		न्यू कोहिमा NEW KOHIMA (400 kV)	0%	100%	0%	0%	0	418	396	406
12		पालाताना PALATANA (400 kV)	0%	100%	0%	0%	0	414	399	408
13		पुर्वकचनबारी PK BARI (400 kV)	0%	100%	0%	0%	0	415	395	404
14		रंगानादी RANGANADI (400 kV)	0%	0%	0%	0%	0	0	0	0
15		सिलचर SILCHAR (400 kV)	0%	100%	0%	0%	0	419	397	408
16		सुबानसिरी SUBANSIRI (400 kV)	0%	0%	0%	0%	0	0	0	0
17		सुज्यामनिगर SURJYAMANINAGAR (400 kV)	0%	100%	0%	0%	0	413	394	403
18	थोबाल THOUBAL (400 kV)	0%	100%	0%	0%	0	414	387	399	

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

# All India monthly angular spread w.r.to Vindhyachal-July2022

AGRA\_PG ALIPU\_PG BACHU\_PG BONGA\_PG DURG4\_WB FARAK\_PG GIJKA\_PG  
KALW4\_MH KOLAR\_PG KOTA\_PG KSTPS\_GS KZKDE\_PG PATNA\_PG PURNW\_PG  
RHNHV\_PG SILCR\_PG TALCH\_PG TCHRN\_PG UNNAO\_UP VINDP\_PG

