

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

Date: 05-Sep-2022

**System Reliability Indices Report for the month of August 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 AUGUST 2022

Date of reporting:

05-Sep-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-Aug-22	3.41	77.42	19.17	22.58	5:25	50.01
02-Aug-22	5.09	85.88	9.03	14.12	3:23	50.00
03-Aug-22	14.79	79.99	5.22	20.01	4:48	49.97
04-Aug-22	13.75	74.64	11.61	25.36	6:05	49.99
05-Aug-22	1.02	84.22	14.76	15.78	3:47	50.01
06-Aug-22	6.30	74.62	19.09	25.38	6:05	50.00
07-Aug-22	5.24	76.54	18.22	23.46	5:37	50.01
08-Aug-22	4.58	79.83	15.59	20.17	4:50	50.01
09-Aug-22	3.75	72.89	23.36	27.11	6:30	50.01
10-Aug-22	9.51	73.15	17.34	26.85	6:26	50.00
11-Aug-22	5.44	63.11	31.45	36.89	8:51	50.03
12-Aug-22	11.64	77.22	11.13	22.78	5:28	49.98
13-Aug-22	14.56	78.28	7.16	21.72	5:12	49.98
14-Aug-22	3.47	77.96	18.56	22.04	5:17	50.01
15-Aug-22	14.73	46.47	38.80	53.53	12:50	50.02
16-Aug-22	13.21	61.20	25.59	38.80	9:18	49.99
17-Aug-22	7.65	82.75	9.59	17.25	4:08	49.99
18-Aug-22	5.98	77.37	16.64	22.63	5:25	50.00
19-Aug-22	0.67	73.94	25.39	26.06	6:15	50.03
20-Aug-22	4.63	83.70	11.67	16.30	3:54	50.00
21-Aug-22	7.09	71.49	21.41	28.51	6:50	50.00
22-Aug-22	2.91	77.69	19.41	22.31	5:21	50.01
23-Aug-22	5.80	72.41	21.79	27.59	6:37	50.00
24-Aug-22	10.82	81.11	8.07	18.89	4:32	49.98
25-Aug-22	15.45	76.42	8.13	23.58	5:39	49.97
26-Aug-22	20.39	71.85	7.75	28.15	6:45	49.96
27-Aug-22	13.08	79.24	7.69	20.76	4:59	49.97
28-Aug-22	7.01	82.40	10.59	17.60	4:13	49.99
29-Aug-22	20.01	77.40	2.59	22.60	5:25	49.95
30-Aug-22	12.80	76.24	10.96	23.76	5:42	49.98
31-Aug-22	7.18	81.52	11.31	18.48	4:26	49.99
<b>August 2022</b>	<b>8.77</b>	<b>75.77</b>	<b>15.45</b>	<b>24.23</b>	<b>180:15</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.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	751	775
2		दालिपली DARLIPALI	0%	100%	0%	0%	0	791	763	776
3		गया GAYA	0%	100%	0%	0%	0	798	748	773
4		जेरत JERAT	0%	100%	0%	0%	0	792	742	767
5		झारसुगडा JHARSUGUDA	0%	100%	0%	0%	0	801	768	785
6		मिदनापुर MEDINIPUR	0%	100%	0%	0%	0	792	754	773
7		रंची RANCHI	0%	100%	0%	0%	0	915	767	783
8		ससाराम SASARAM	0%	100%	0%	0%	0	801	736	765
1	उत्तरी क्षेत्र NR	आगरा AGRA	0%	100%	0%	0%	0	799	751	778
2		आगरा (फतेहाबाद) AGRA (FATEHABAD)	0%	100%	0%	0%	0	792	743	769
3		अजमेर AJMER	0%	100%	0%	0%	2	805	756	780
4		अलीगढ़ ALIGARH	0%	100%	0%	0%	0	797	746	774
5		अनूपरा सी ANPARA-C	0%	100%	0%	0%	0	783	759	769
6		अनूपरा डी ANPARA-D	0%	100%	0%	0%	0	782	754	766
7		अंता ANTA	0%	100%	0%	0%	0	798	763	781
8		बलिया BALLIA	0%	100%	0%	0%	0	792	741	770
9		बारा BARA	0%	100%	0%	0%	0	785	745	767
10		भादला BHADLA	0%	100%	0%	0%	1	804	727	774
11		भादला-2 BHADLA-2	0%	100%	0%	0%	2	804	733	776
12		बिहारी BHIWANI	0%	100%	0%	0%	0	801	747	777
13		बीकानेर BIKANER	0%	100%	0%	0%	2	807	740	775
14		बरेली BAREILLY	0%	99%	1%	1%	7	807	735	775
15		चित्तौड़गढ़ CHITTORGARH	0%	100%	0%	0%	1	803	755	778
16		फतेहगढ़-2 FATEHGARH-2	0%	100%	0%	0%	0	803	726	774
17		फतेहपुर FATEHPUR	0%	100%	0%	0%	0	795	737	769
18		ग्रेटर नोएडा GREATER NOIDA	0%	100%	0%	0%	2	803	750	777
19		हापड़ HAPUR	0%	100%	0%	0%	1	803	741	772
20		जवाहरपुर JAWAHARPUR	0%	0%	0%	0%	0	0	0	0
21		झटिकरा JHATIKARA	0%	100%	0%	0%	0	792	745	771
22		कानपुर जेआइएस KANPUR GIS	0%	100%	0%	0%	0	790	742	768
23		खैरती KHETRI	0%	100%	0%	0%	0	801	747	775
24		कोटेश्वर KOTESHWAR	0%	100%	0%	0%	0	802	747	773
25		लालितपुर LALITPUR	0%	100%	0%	0%	0	771	741	757
26		लुक्नो LUCKNOW	0%	100%	0%	0%	0	801	738	773
27		मैनपुरी MAINPURI	0%	100%	0%	0%	2	806	750	776
28		मेरठ MEERUT	0%	100%	0%	0%	0	800	749	767
29		मोगा MOGA	0%	100%	0%	0%	0	800	744	771
30		ओबरा सी OBRA C	0%	0%	0%	0%	0	0	0	0
31		उरई ORAI	0%	99%	1%	1%	4	804	756	783
32		फागी PHAGI	0%	100%	0%	0%	0	805	758	781
33		उन्नाव UNNAO	0%	100%	0%	0%	0	787	732	761
34		वाराणसी VARANASI	0%	100%	0%	0%	0	793	745	775
1	पश्चिमी क्षेत्र WR	अकोला AKOLA	0%	100%	0%	0%	0	798	754	777
2		औरंगाबाद AURANGABAD	0%	100%	0%	0%	1	801	748	776
3		भोपाल (बीक्रीटीसीएल) BHOPAL (BDTCL)	0%	100%	0%	0%	0	792	750	770
4		भुज BHUJ	0%	100%	0%	0%	0	793	742	768
5		भुज-2 BHUJ-II	0%	100%	0%	0%	0	792	738	766
6		बिलासपुर BILASPUR	0%	100%	0%	0%	0	788	761	774
7		बीना BINA	0%	100%	0%	0%	3	802	761	781
8		बनसकण्ठ BANASKANTHA	0%	100%	0%	0%	0	792	746	774
9		चापा CHAMPA	0%	89%	11%	11%	76	811	772	792
10		धुले (बीक्रीटीसीएल) DHULE (BDTCL)	0%	100%	0%	0%	0	799	749	774
11		धरमचंद धरमजगड DHARAMJAGARH	0%	100%	0%	0%	0	790	759	773
12		रायचूर पुलिंग RAIPUR POOLING	0%	100%	0%	0%	0	796	761	781
13		एकतुनी EKTUNI	0%	100%	0%	0%	0	798	749	777
14		गडरवाड़ा GADARWARA	0%	99%	1%	1%	5	801	772	785
15		गालियर GWALIOR	0%	100%	0%	0%	2	802	756	782
16		इंदौर INDORE	0%	100%	0%	0%	0	794	748	770
17		जबलपुर JABALPUR	0%	99%	1%	1%	5	804	766	785
18		खडवा KHANDWA	0%	100%	0%	0%	0	794	750	770
19		कोरडी KORADI	0%	0%	0%	0%	0	781	749	766
20		रायचूर पुलिंग RAIGARH POOLING	0%	100%	0%	0%	0	799	770	785
21		पडघे PADGHE	0%	99%	1%	1%	6	806	748	780
22		परली PARLI	0%	95%	5%	5%	33	807	757	788
23		पुणे PUNE	0%	98%	0%	0%	0	800	744	780
24		राजनन्दागांव RAJNANDGAON	0%	96%	4%	4%	31	804	769	790
25		सासन SASAN	0%	100%	0%	0%	0	794	764	778
26		सातना SATNA	0%	98%	2%	2%	12	804	768	784
27		सिवनी SEONI	0%	100%	0%	0%	0	801	761	781
28		सीतल SIPTAL	0%	100%	0%	0%	0	788	764	776
29		सोलापुर SOLAPUR	0%	99%	1%	1%	10	805	749	785
30		तिरुंगा TIRORA	0%	100%	0%	0%	0	773	749	782
31		तामनार TAMNAR	0%	100%	0%	0%	0	798	771	785
32		वडीदरा VADODARA	0%	99%	1%	1%	4	809	753	776
33		विंध्याचल पुलिंग VINDHYACHAL PS	0%	100%	0%	0%	0	797	768	781
34		वर्धा WARDHA	0%	100%	0%	0%	1	803	744	782
35	वरोरा WARDORA	0%	100%	0%	0%	3	805	761	785	
1	दक्षिणी क्षेत्र SR	कडपा CUDDAPAH	0%	88%	12%	12%	90	811	756	787
2		चिल्कुरीपेट CHILKALURIPETA	0%	97%	3%	3%	19	810	748	780
3		कुरुनल KURNOOL	0%	100%	0%	0%	0	798	740	776
4		महेश्वरम MAHESWARAM	0%	98%	1%	2%	11	810	724	777
5		निजामाबाद NIZAMABAD	0%	87%	13%	13%	93	811	732	785
6		नेल्लूर पुलिंग NELLORE PS	0%	100%	0%	0%	0	796	734	775
7		रायचूर RAICHUR	0%	100%	0%	0%	1	801	744	779
8		श्रीकाकुलम SRIKAKULAM	0%	97%	3%	3%	22	808	747	779
9		तिरुवल्लम THIRUVALEM	0%	100%	0%	0%	0	792	730	766
10		वेमगिरी VEMAGIRI	0%	94%	6%	6%	40	813	748	780
1	पूर्वोत्तरी 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	417	397	407
3		बोंगाईगाव BONGAIGAON (400 kV)	0%	100%	0%	0%	0	413	401	407
4		बोंगाईगाव टीसीएल BONGAIGAON TPS (400 kV)	0%	100%	0%	0%	0	417	404	410
5		इम्फाल IMPHAL (400 kV)	0%	100%	0%	0%	0	420	395	407
6		बयर्निहाट BYRNIHAT (400 kV)	0%	0%	0%	0%	0	0	0	0
7		कामेंग KAMENG (400 kV)	0%	100%	0%	0%	0	412	398	404
8		अज़ारा AZARA (400 kV)	0%	100%	0%	0%	0	409	397	405
9		मिसा MISA (400 kV)	0%	100%	0%	0%	0	415	396	405
10		न्यू मरियानी NEW MARIANI (400 kV)	0%	100%	0%	0%	0	416	396	405
11		न्यू कोहिमा NEW KOHIMA (400 kV)	0%	100%	0%	0%	0	419	395	406
12		पालाताना PALATANA (400 kV)	0%	100%	0%	0%	0	413	402	408
13		पुर्वकचनबारी PK BARI (400 kV)	0%	100%	0%	0%	0	412	390	404
14		रंगानादी RANGANADI (400 kV)	0%	0%	0%	0%	0	0	0	0
15		सिलचर SILCHAR (400 kV)	0%	100%	0%	0%	0	417	396	409
16		सुबानसिरी SUBANSIRI (400 kV)	0%	0%	0%	0%	0	0	0	0
17		सुज्यामनिगर SURJYAMANINAGAR (400 kV)	0%	100%	0%	0%	0	411	391	403
18	थोउबाल THOUBAL (400 kV)	0%	100%	0%	0%	0	410	382	396	

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

# All India Angular Spread month of --Aug\_22

- 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

