

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

Date: 03-Sep-2021

**System Reliability Indices Report for the month of August 2021**

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

S.No.	Corridor	Number of Blocks Violated	Number of Hours Violated	%Violation
1	WR-NR	12	3.00	0.40
2	ER-NR	3	0.75	0.10
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 2021

Date of reporting:

03-Sep-21

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-21	4.09	75.51	20.41	24.49	5:52	50.01
02-Aug-21	10.68	82.13	7.19	17.87	4:17	49.98
03-Aug-21	16.47	72.89	10.64	27.11	6:30	49.97
04-Aug-21	8.60	77.86	13.54	22.14	5:18	49.99
05-Aug-21	6.66	80.57	12.78	19.43	4:39	49.99
06-Aug-21	13.24	71.92	14.84	28.08	6:44	49.98
07-Aug-21	12.40	77.28	10.32	22.72	5:27	49.98
08-Aug-21	1.02	67.34	31.64	32.66	7:50	50.03
09-Aug-21	1.59	72.63	25.79	27.37	6:34	50.02
10-Aug-21	2.00	85.88	12.12	14.12	3:23	50.01
11-Aug-21	12.44	74.39	13.17	25.61	6:08	49.98
12-Aug-21	1.75	84.22	14.03	15.78	3:47	50.01
13-Aug-21	0.14	76.28	23.58	23.72	5:41	50.03
14-Aug-21	1.72	73.41	24.86	26.59	6:22	50.02
15-Aug-21	9.21	82.40	8.39	17.60	4:13	49.98
16-Aug-21	27.96	66.96	5.08	33.04	7:55	49.94
17-Aug-21	16.41	79.69	3.90	20.31	4:52	49.97
18-Aug-21	3.48	81.11	15.41	18.89	4:32	50.00
19-Aug-21	1.56	78.96	19.48	21.04	5:03	50.02
20-Aug-21	4.25	68.23	27.52	31.77	7:37	50.02
21-Aug-21	2.70	79.70	17.60	20.30	4:52	50.01
22-Aug-21	3.03	77.01	19.95	22.99	5:31	50.01
23-Aug-21	4.13	78.90	16.97	21.10	5:03	50.01
24-Aug-21	5.90	84.78	9.32	15.22	3:39	49.99
25-Aug-21	9.87	81.85	8.28	18.15	4:21	49.98
26-Aug-21	17.62	75.71	6.68	24.29	5:49	49.96
27-Aug-21	26.46	68.56	4.98	31.44	7:32	49.94
28-Aug-21	8.39	79.65	11.96	20.35	4:53	49.99
29-Aug-21	0.90	78.91	20.19	21.09	5:03	50.02
30-Aug-21	1.76	81.75	16.49	18.25	4:22	50.01
31-Aug-21	1.53	68.29	30.19	31.71	7:36	50.03
<b>August 2021</b>	<b>7.68</b>	<b>76.93</b>	<b>15.40</b>	<b>23.07</b>	<b>171:39</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	अंगल ANGUL	0%	100%	0%	0%	0	795	756	779
2		दालिपली DARPALI	0%	100%	0%	0%	0	789	768	779
3		गया GAYA	0%	100%	0%	0%	0	781	744	769
4		झारसुगडा JHARSUGUDA	0%	100%	0%	0%	3	803	774	790
5		मिदिनापुर MEDINIPUR	0%	100%	0%	0%	0	785	738	759
6		रांची RANCHI	0%	100%	0%	0%	0	790	758	775
7		सासाराम SASARAM	0%	100%	0%	0%	0	785	737	766
1	उत्तरी क्षेत्र NR	आगरा AGRA	0%	100%	0%	0%	0	802	753	779
2		आगरा (फतेहाबाद) AGRA (FATEHABAD)	0%	100%	0%	0%	0	799	749	775
3		अजमेर AJMER	0%	98%	2%	0%	13	807	759	785
4		अलीगढ़ ALIGARH	0%	100%	0%	0%	0	800	746	776
5		अनपरा सी ANPARA-C	0%	100%	0%	0%	0	781	756	766
6		अनपरा डी ANPARA-D	0%	100%	0%	0%	0	783	757	768
7		अंता ANTA	0%	100%	0%	0%	2	948	764	784
8		बलिया BALLIA	0%	100%	0%	0%	0	792	739	771
9		बारा BARA	0%	100%	0%	0%	0	791	761	778
10		भद्रनाथ BHADLA	0%	99%	1%	1%	4	823	733	771
11		बिजनौर BHIWANI	0%	100%	0%	0%	0	801	753	777
12		बिकानेर BIKANER	0%	99%	1%	1%	6	812	740	774
13		बरेली BAREILLY	0%	100%	0%	0%	1	807	743	776
14		चित्तौड़गढ़ CHITTORGARH	0%	99%	1%	1%	6	805	750	781
15		फतेहपुर FATEHPUR	0%	100%	0%	0%	0	795	738	770
16		ग्रेटर नोएडा GREATER NOIDA	0%	99%	1%	1%	8	806	748	779
17		हापड़ HAPUR	0%	100%	0%	0%	2	803	744	776
18		जवाहरपुर JAWAHARPUR	0%	0%	0%	0%	0	0	0	0
19		झाटिकर JHATIKARA	0%	100%	0%	0%	0	798	748	773
20		कानपुर जीआईएस KANPUR GIS	0%	100%	0%	0%	0	794	748	772
21		कोटेश्वर KOTESHWAR	0%	100%	0%	0%	0	801	746	773
22		ललितपुर LALITPUR	0%	100%	0%	0%	0	783	754	769
23		लखनऊ LUCKNOW	0%	100%	0%	0%	0	800	741	773
24		मैनपुरी MAINPURI	0%	99%	1%	1%	4	805	750	781
25		मेरठ MEERUT	0%	100%	0%	0%	1	804	750	778
26		मोगा MOGA	0%	100%	0%	0%	0	797	748	775
27		ओबरा सी OBRA C	0%	0%	0%	0%	0	0	0	0
28		उरई ORAI	0%	99%	1%	1%	7	805	761	785
29		फागी PHAGI	0%	100%	0%	0%	3	806	756	783
30		उन्नाव UNNAO	0%	100%	0%	0%	0	785	733	759
31	वाराणसी VARANASI	0%	100%	0%	0%	0	790	754	776	
1	पश्चिमी क्षेत्र WR	अकोला AKOLA	0%	100%	0%	0%	0	790	753	774
2		औरंगाबाद AURANGABAD	0%	100%	0%	0%	0	799	751	777
3		भोपाळ (बीडीटीसीएल) BHOPAL (BDTCL)	0%	100%	0%	0%	0	792	751	773
4		भुज BHUJ	0%	100%	0%	0%	0	800	743	774
5		बिलासपुर BILASPUR	0%	100%	0%	0%	0	786	765	776
6		बीना BINA	0%	100%	0%	0%	0	800	759	781
7		बनसकांठा BANASKANTHA	0%	100%	0%	0%	3	805	757	783
8		चांपा CHAMPA	0%	100%	0%	0%	0	798	773	786
9		धुले (बीडीटीसीएल) DHULE (BDTCL)	0%	100%	0%	0%	0	800	747	772
10		धर्मजयगढ़ DHARAMJAGARH	0%	100%	0%	0%	0	787	762	776
11		रायपुर प्लिग RAIPUR POOLING	0%	100%	0%	0%	0	791	771	783
12		एकतुनी EKTUNI	0%	100%	0%	0%	0	791	748	774
13		गदरवाड़ा GADARWARA	0%	100%	0%	0%	0	800	770	785
14		ग्वालियर GWALIOR	0%	100%	0%	0%	1	803	739	782
15		इंदौर INDORE	0%	100%	0%	0%	0	788	750	771
16		जबलपुर JABALPUR	0%	100%	0%	0%	3	801	767	785
17		खंडवा KHANDWA	0%	100%	0%	0%	0	790	750	771
18		कोरडी KORADI	0%	100%	0%	0%	0	779	753	767
19		रायगढ़ प्लिग RAIGARH POOLING	0%	100%	0%	0%	0	797	775	786
20		पडरुगे PADGHE	0%	100%	0%	0%	1	804	747	778
21		पारली PARLI	0%	96%	4%	4%	26	805	763	788
22		पुणे PUNE	0%	100%	0%	0%	0	800	750	782
23		राजानंदगाँव RAJNANDGAON	0%	100%	0%	0%	1	802	774	790
24		सासन SASAN	0%	100%	0%	0%	0	791	767	779
25		सासन SATNA	0%	100%	0%	0%	2	801	769	785
26		सेवनी SEONI	0%	100%	0%	0%	0	797	760	780
27		सोपल SIPAT	0%	100%	0%	0%	0	787	767	777
28		सोलापुर SOLAPUR	0%	99%	1%	1%	8	802	760	786
29		तिरोडा TIRODA	0%	100%	0%	0%	0	775	749	763
30		तामनार TAMNAR	0%	100%	0%	0%	0	797	778	787
31		वाडोदरा VADODARA	0%	100%	0%	0%	0	794	750	773
32		विन्ध्यचल प्लिग VINDHYACHAL PS	0%	100%	0%	0%	0	793	769	783
33		वर्धा WARDHA	0%	99%	1%	1%	4	802	762	786
34		वरीसा WARORA	0%	100%	0%	0%	0	801	767	787
1	दक्षिणी क्षेत्र SR	कडपा CUDDAPAH	0%	90%	10%	10%	74	816	749	787
2		चिल्कलीपेट CHILAKALURIPETA	0%	100%	0%	0%	4	818	736	776
3		कर्नूल KURNOOL	0%	100%	0%	0%	0	795	742	774
4		महेश्वरम MAHESWARAM	0%	100%	0%	0%	2	803	703	774
5		निजामाबाद NIZAMABAD	0%	95%	5%	5%	41	812	755	786
6		नेल्लूर प्लिग NELLORE PS	0%	100%	0%	0%	0	793	748	774
7		रायचूर RAICHUR	0%	100%	0%	0%	0	798	747	778
8		श्रीकाकुलम SRIKAKULAM	0%	97%	3%	3%	20	807	757	786
9		तिरुवल्लम THIRUVALEM	0%	99%	1%	1%	5	804	743	779
10		वेमगिरी VEMAGIRI	0%	90%	10%	10%	77	818	753	787
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	416	396	407
3		बोंगाईगाव BONGAIGAON (400 kV)	0%	100%	0%	0%	0	415	400	408
4		बोंगाईगाव टीपीएस BONGAIGAON TPS (400 kV)	0%	100%	0%	0%	0	418	404	412
5		इम्फाल IMPHAL (400 kV)	0%	100%	0%	0%	0	417	396	407
6		बर्निकट BYRNIHAT (400 kV)	0%	0%	0%	0%	0	0	0	0
7		कामेंग KAMENG (400 kV)	0%	100%	0%	0%	0	414	394	404
8		अज़ारा AZARA (400 kV)	0%	100%	0%	0%	0	411	402	406
9		मिशा MISA (400 kV)	0%	100%	0%	0%	0	414	395	405
10		न्यू मरियानी NEW MARIANI (400 kV)	0%	100%	0%	0%	0	415	394	405
11		न्यू कोहिमा NEW KOHIMA (400 kV)	0%	100%	0%	0%	0	418	393	406
12		पालाताना PALATANA (400 kV)	0%	100%	0%	0%	0	411	401	406
13		पूर्वकचनबारी PK BARI (400 kV)	0%	100%	0%	0%	0	412	396	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	400	409
17	सुरज्यामनिनगर SURJYAMANINAGAR (400 kV)	0%	100%	0%	0%	0	408	395	402	

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

# Angular Difference - Aug 2021

AGRA\_PG ALIPU\_PG BACHU\_PG BALIP\_PG BONGA\_PG CHDPR\_MH DURG4\_WB  
FARAK\_PG GJWKA\_PG HOSUR\_PG KALW4\_MH KOLAR\_PG MOGA\_PG PATNA\_PG  
PURNW\_PG SILCR\_PG TALCH\_PG UNNAO\_UP VINDP\_PG

