

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

Date: 05-Aug-2021

System Reliability Indices Report for the month of July 2021

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	12	3.00	0.40
3	Import of NR	1	0.25	0.03
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	2	0.50	0.07
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 2021

Date of reporting:

05-Aug-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-Jul-21	2.47	75.79	21.75	24.21	5:48	50.02
02-Jul-21	2.07	70.86	27.07	29.14	6:59	50.03
03-Jul-21	11.26	63.46	25.28	36.54	8:46	50.00
04-Jul-21	7.27	68.44	24.29	31.56	7:34	50.00
05-Jul-21	12.22	75.96	11.82	24.04	5:46	49.98
06-Jul-21	21.97	69.94	8.09	30.06	7:12	49.95
07-Jul-21	6.52	79.12	14.36	20.88	5:00	50.00
08-Jul-21	0.67	70.47	28.85	29.53	7:05	50.02
09-Jul-21	4.04	75.83	20.13	24.17	5:48	50.01
10-Jul-21	5.36	79.43	15.21	20.57	4:56	50.00
11-Jul-21	8.99	71.09	19.92	28.91	6:56	49.99
12-Jul-21	3.83	59.42	36.75	40.58	9:44	50.03
13-Jul-21	0.46	73.69	25.84	26.31	6:18	50.02
14-Jul-21	1.33	72.38	26.28	27.62	6:37	50.03
15-Jul-21	4.71	80.17	15.12	19.83	4:45	50.00
16-Jul-21	11.41	79.56	9.03	20.44	4:54	49.98
17-Jul-21	2.74	67.81	29.44	32.19	7:43	50.02
18-Jul-21	0.53	65.30	34.17	34.70	8:19	50.03
19-Jul-21	4.28	63.50	32.22	36.50	8:45	50.02
20-Jul-21	0.87	74.95	24.18	25.05	6:00	50.02
21-Jul-21	1.53	78.61	19.86	21.39	5:08	50.02
22-Jul-21	0.95	79.18	19.87	20.82	4:59	50.01
23-Jul-21	11.81	76.72	11.47	23.28	5:35	49.98
24-Jul-21	13.99	80.14	5.87	19.86	4:46	49.97
25-Jul-21	1.85	78.95	19.20	21.05	5:03	50.01
26-Jul-21	6.53	78.43	15.05	21.57	5:10	50.00
27-Jul-21	4.62	83.73	11.66	16.27	3:54	50.00
28-Jul-21	3.18	86.46	10.36	13.54	3:15	50.00
29-Jul-21	2.78	81.86	15.36	18.14	4:21	50.01
30-Jul-21	0.42	84.43	15.15	15.57	3:44	50.01
31-Jul-21	5.28	81.23	13.50	18.77	4:30	50.00
July 2021	5.35	75.06	19.59	24.94	185:32	50.01

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

विद्युत विभव रूपरेखा माह - जुलाई 2021

VOLTAGE PROFILE - July 2021

Date of reporting: 05-Aug-21

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	796	758	781
2		दालिपली DARPALI	0%	100%	0%	0%	0	791	765	779
3		गया GAYA	0%	100%	0%	0%	0	793	744	770
4		झारसुगडा JHARSUGUDA	0%	99%	1%	1%	9	804	773	790
5		मिदनापुर MEDINIPUR	0%	100%	0%	0%	0	789	736	761
6		रांची RANCHI	0%	100%	0%	0%	0	791	752	775
7		सासाराम SASARAM	0%	100%	0%	0%	0	801	740	767
1	उत्तरी क्षेत्र NR	आगरा AGRA	0%	100%	0%	0%	0	799	747	778
2		आगरा (फतेहाबाद) AGRA (FATEHABAD)	0%	100%	0%	0%	0	800	749	774
3		अजमेर AJMER	0%	99%	1%	1%	10	806	755	781
4		अलीगढ़ ALIGARH	0%	100%	0%	0%	0	801	746	774
5		अनपरा सी ANPARA-C	0%	100%	0%	0%	0	783	753	764
6		अनपरा डी ANPARA-D	0%	100%	0%	0%	0	782	755	766
7		अंता ANTA	0%	100%	0%	0%	0	799	764	781
8		बलिया BALLIA	0%	100%	0%	0%	0	797	742	771
9		बारा BARA	0%	100%	0%	0%	0	791	761	776
10		भद्रनाथ BHADLA	0%	100%	0%	0%	1	809	731	770
11		बिहनी BHIWANI	0%	100%	0%	0%	0	805	753	778
12		बिकानेर BIKANER	0%	99%	1%	1%	4	811	733	774
13		बरेली BAREILLY	0%	99%	1%	1%	7	809	740	776
14		चित्तौड़गढ़ CHITTORGARH	0%	100%	0%	0%	3	805	747	782
15		फतेहपुर FATEHPUR	0%	100%	0%	0%	0	796	740	768
16		ग्रेटर नोएडा GREATER NOIDA	0%	99%	1%	1%	5	805	748	777
17		हापड़ HAPUR	0%	100%	0%	0%	3	805	733	775
18		जवाहरपुर JAWAHARPUR	0%	0%	0%	0%	0	0	0	0
19		झाटिका JHATIKARA	0%	100%	0%	0%	0	798	747	773
20		कानपुर जीआईएस KANPUR GIS	0%	100%	0%	0%	0	800	745	772
21		कोटेश्वर KOTESHWAR	0%	100%	0%	0%	0	800	744	773
22		ललितपुर LALITPUR	0%	100%	0%	0%	0	784	751	769
23		लखनऊ LUCKNOW	0%	100%	0%	0%	1	804	740	773
24		मैनपुरी MAINPURI	0%	99%	1%	1%	9	804	748	780
25		मेरठ MEERUT	0%	100%	0%	0%	2	805	746	777
26		मोगा MOGA	0%	100%	0%	0%	0	798	745	772
27		ओबरा सी OBRA C	0%	0%	0%	0%	0	0	0	0
28		उरई ORAI	0%	99%	1%	1%	5	803	752	781
29		फागी PHAGI	0%	100%	0%	0%	3	805	755	781
30		उन्नाव UNNAO	0%	100%	0%	0%	0	786	732	760
31	वाराणसी VARANASI	0%	100%	0%	0%	0	800	753	777	
1	पश्चिमी क्षेत्र WR	अकोला AKOLA	0%	100%	0%	0%	0	794	755	777
2		औरंगाबाद AURANGABAD	0%	100%	0%	0%	0	797	750	779
3		भोपाळ (बीडीटीसीएस) BHOPAL (BDTCL)	0%	100%	0%	0%	0	790	755	772
4		भुज BHUJ	0%	100%	0%	0%	0	800	744	772
5		बिलासपुर BILASPUR	0%	100%	0%	0%	0	787	763	774
6		बीना BINA	0%	100%	0%	0%	0	802	746	780
7		बनसकांठा BANASKANTHA	0%	100%	0%	0%	1	801	760	782
8		चांपा CHAMPA	0%	100%	0%	0%	0	800	762	785
9		धुले (बीडीटीसीएस) DHULE (BDTCL)	0%	100%	0%	0%	0	798	744	772
10		धर्मजयगढ़ DHARAMJAGARH	0%	100%	0%	0%	0	789	758	775
11		रायपुर पल्लिग RAIPUR POOLING	0%	100%	0%	0%	0	794	765	779
12		एकतुनी EKTUNI	0%	100%	0%	0%	0	796	749	777
13		गदरवाड़ा GADARWARA	0%	100%	0%	0%	0	799	769	785
14		ग्वालियर GWALIOR	0%	100%	0%	0%	1	800	755	780
15		इंदौर INDORE	0%	100%	0%	0%	0	792	747	770
16		जबलपुर JABALPUR	0%	99%	1%	1%	4	804	754	784
17		खंडवा KHANDWA	0%	100%	0%	0%	0	793	748	771
18		कोरडी KORADI	0%	100%	0%	0%	0	780	750	767
19		रायगढ़ पल्लिग RAIGARH POOLING	0%	100%	0%	0%	0	799	767	785
20		पडरुगे PADGHE	0%	99%	1%	1%	8	806	748	781
21		पारली PARLI	0%	95%	5%	5%	40	806	766	789
22		पुणे PUNE	0%	97%	0%	0%	0	800	746	785
23		राजनंदगाँव RAJNANDGAON	0%	100%	0%	0%	1	803	753	788
24		सासन SASAN	0%	100%	0%	0%	0	789	757	772
25		सासन SATNA	0%	100%	0%	0%	0	801	755	778
26		सेवनी SEONI	0%	100%	0%	0%	0	795	765	780
27		सोपल SIPAT	0%	100%	0%	0%	0	787	766	775
28		सोलापुर SOLAPUR	0%	99%	1%	1%	4	803	760	784
29		तिरुंगा TIROGA	0%	100%	0%	0%	0	774	750	763
30		तामनार TAMNAR	0%	100%	0%	0%	0	797	770	786
31		वाडीदरा VADODARA	0%	100%	0%	0%	0	797	753	775
32		विन्ध्यचल पल्लिग VINDHYACHAL PS	0%	100%	0%	0%	0	792	758	774
33		वर्धा WARDHA	0%	100%	0%	0%	0	801	757	784
34		वराणार WARORA	0%	100%	0%	0%	1	802	766	787
1	दक्षिणी क्षेत्र SR	कडपा CUDDAPAH	0%	91%	9%	9%	69	809	756	787
2		चिल्कलीपेट CHILAKALURIPETA	0%	98%	2%	2%	14	803	743	774
3		कर्नूल KURNOOL	0%	100%	0%	0%	0	796	746	777
4		महेश्वरम MAHESWARAM	0%	100%	0%	0%	2	804	742	776
5		निजामाबाद NIZAMABAD	0%	93%	7%	7%	51	812	753	788
6		नेल्लूर पल्लिग NELLORE PS	0%	100%	0%	0%	0	796	752	776
7		रायचूर RAICHUR	0%	100%	0%	0%	0	800	750	781
8		श्रीकाकुलम SHRIKAKULAM	0%	97%	3%	3%	22	804	759	788
9		तिरुवल्लम THIRUVALEM	0%	100%	0%	0%	0	801	747	776
10		वेमगिरी VEMAGIRI	0%	93%	7%	7%	49	810	760	786
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	413	393	405
3		बोंगाईगाव BONGAIGAON (400 kV)	0%	100%	0%	0%	0	414	396	407
4		बोंगाईगाव टीपीएस BONGAIGAON TPS (400 kV)	0%	100%	0%	0%	0	419	399	410
5		इम्फाल IMPHAL (400 kV)	0%	100%	0%	0%	0	423	394	408
6		इर्निहाट BYRNIHAT (400 kV)	0%	0%	0%	0%	0	0	0	0
7		कामेंग KAMENG (400 kV)	0%	100%	0%	0%	0	410	394	403
8		अज़ारा AZARA (400 kV)	0%	100%	0%	0%	0	411	400	406
9		मिशा MISA (400 kV)	0%	100%	0%	0%	0	416	396	405
10		न्यू मरियानी NEW MARIANI (400 kV)	0%	100%	0%	0%	0	424	393	407
11		न्यू कोहिमा NEW KOHIMA (400 kV)	0%	100%	0%	0%	0	425	394	407
12		पालाताना PALATANA (400 kV)	0%	100%	0%	0%	0	415	397	408
13		पूर्वकचनवारी PK BARI (400 kV)	0%	100%	0%	0%	0	416	389	405
14		रंगानादी RANGANADI (400 kV)	0%	0%	0%	0%	0	0	0	0
15		सिलचर SILCHAR (400 kV)	1%	99%	0%	1%	5	420	362	409
17	सुरज्यामनिगार SURJYAMANINAGAR (400 kV)	0%	100%	0%	0%	0	413	391	403	

All listed stations are 765 kV stations unless otherwise mentioned

*Percentage is calculated w.r.t. Time of one month.

Angle difference w.r.t. Vindhyachal during July 2021

