

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

Date: 05-Jul-2020

System Reliability Indices Report for the month of June 2020

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	30	7.50	1.16
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	9	2.25	0.35
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 June 2020

Date of reporting:

05-Jul-20

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-20	3.07	68.78	28.15	31.22	7:29	50.02
02-Jun-20	6.50	73.84	19.65	26.16	6:16	50.00
03-Jun-20	6.24	75.15	18.61	24.85	5:57	50.00
04-Jun-20	2.69	82.84	14.48	17.17	4:07	50.00
05-Jun-20	2.13	67.35	30.52	32.65	7:50	50.02
06-Jun-20	3.63	74.85	21.52	25.15	6:02	50.01
07-Jun-20	1.31	65.54	33.15	34.46	8:16	50.03
08-Jun-20	13.07	77.69	9.25	22.31	5:21	49.97
09-Jun-20	13.90	77.66	8.44	22.34	5:21	49.97
10-Jun-20	5.30	78.33	16.37	21.67	5:12	50.00
11-Jun-20	1.47	79.22	19.31	20.78	4:59	50.02
12-Jun-20	3.43	81.55	15.02	18.45	4:25	50.01
13-Jun-20	1.20	77.37	21.42	22.63	5:25	50.02
14-Jun-20	0.87	63.77	35.36	36.23	8:41	50.03
15-Jun-20	3.11	77.67	19.21	22.33	5:21	50.01
16-Jun-20	2.33	82.96	14.71	17.04	4:05	50.00
17-Jun-20	3.29	82.28	14.43	17.72	4:15	50.00
18-Jun-20	1.61	77.48	20.91	22.52	5:24	50.01
19-Jun-20	2.93	78.76	18.31	21.24	5:05	50.01
20-Jun-20	4.13	70.71	25.16	29.29	7:01	50.02
21-Jun-20	0.75	55.96	43.29	44.04	10:34	50.05
22-Jun-20	7.14	83.24	9.62	16.76	4:01	49.99
23-Jun-20	10.42	84.11	5.47	15.89	3:48	49.98
24-Jun-20	12.07	81.32	6.61	18.68	4:29	49.98
25-Jun-20	2.16	85.41	12.43	14.59	3:30	50.01
26-Jun-20	0.91	86.41	12.67	13.59	3:15	50.01
27-Jun-20	3.76	77.19	19.05	22.81	5:28	50.01
28-Jun-20	3.14	75.00	21.86	25.00	6:00	50.01
29-Jun-20	6.68	80.80	12.52	19.20	4:36	49.99
30-Jun-20	5.97	84.02	10.01	15.98	3:50	49.99
June 2020	4.51	76.91	18.58	23.09	0.23	50.01

*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	803	756	779
2		गया GAYA	0%	100%	0%	0%	0	790	745	770
3		झारसगढ़ा JHARSUGUDA	0%	96%	4%	4%	26	806	773	791
4		रांची RANCHI	0%	100%	0%	0%	0	794	759	781
5		सासाराम SASARAM	0%	100%	0%	0%	0	794	737	763
6		दार्जिलिणी DARLIPALI	0%	100%	0%	0%	0	795	768	782
1	उत्तरी क्षेत्र NR	आगरा AGRA	0%	100%	0%	0%	0	800	748	778
2		आगरा (फतेहबाद) AGRA (FATEHABAD)	0%	99%	1%	1%	4	805	739	767
3		अनूपरा सी ANPARA-C	0%	100%	0%	0%	0	778	752	765
4		अनूपरा डी ANPARA-D	0%	100%	0%	0%	0	779	753	766
5		अंता ANTA	0%	100%	0%	0%	0	802	750	777
6		बलिया BALLIA	0%	100%	0%	0%	0	791	744	770
7		बारा BARA	0%	100%	0%	0%	0	795	761	778
8		बिजनौर BIHARI	0%	99%	1%	1%	4	803	749	781
9		बरेली BAREILLY	0%	99%	1%	1%	5	804	748	777
10		फतेहपुर FATEHPUR	0%	100%	0%	0%	0	793	739	767
11		ग्रेटर नोएडा GREATER NOIDA	0%	97%	3%	3%	22	808	753	783
12		झटिकर JHATIKARA	0%	100%	0%	0%	0	801	745	776
13		कानपुर जंक्शन KANPUR GIS	0%	100%	0%	0%	0	796	751	775
14		लखनऊ LUCKNOW	0%	100%	0%	0%	0	801	747	776
15		लालितपुर LALITPUR	0%	100%	0%	0%	3	787	721	765
16		मेरठ MEERUT	0%	99%	1%	1%	9	810	751	777
17		मोहा MOHA	0%	100%	0%	0%	1	804	750	781
18		फासी PHASI	0%	100%	0%	0%	1	802	749	779
19		वाराणसी VARANASI	0%	100%	0%	0%	0	796	754	776
20		उन्नाव UNNAO	0%	100%	0%	0%	0	790	736	764
21		चित्तौड़गढ़ CHITTORGARH	0%	98%	2%	2%	14	805	758	783
22		अलीगढ़ ALIGARH	0%	100%	0%	0%	0	800	748	776
23		अजमेर AJMER	0%	99%	1%	1%	4	805	733	779
24		हापड़ HAPUR	0%	100%	0%	0%	1	801	741	772
25		मैनपुरी MAINPURI	0%	96%	4%	4%	32	807	761	785
26		उरई ORAI	0%	100%	0%	0%	4	803	754	783
27	बीकानेर BIKANER	0%	100%	0%	0%	2	802	732	774	
28	शाहदोल SHAHOLA	0%	100%	0%	0%	2	803	723	772	
29	कोटेश्वर KOTESHWAR	0%	99%	1%	1%	11	811	759	780	
1	पश्चिमी क्षेत्र WR	अकोला AKOLA	0%	95%	5%	5%	33	808	758	788
2		औरंगाबाद AURANGABAD	0%	100%	0%	0%	1	801	750	780
3		भोपाल (बीकेंडीसीएच) BHOPAL (BDTCL)	0%	100%	0%	0%	0	798	746	771
4		बिलासपुर BILASPUR	0%	100%	0%	0%	0	788	761	774
5		बीना BINA	0%	100%	0%	0%	0	801	754	779
6		चापा CHAMPA	0%	100%	0%	0%	0	800	769	786
7		धर्मजयगढ़ DHARAMJAIGARH	0%	100%	0%	0%	0	788	757	776
8		धुले (बीकेंडीसीएच) DHULE (BDTCL)	0%	100%	0%	0%	0	798	741	773
9		एकतुनी EKTUNI	0%	92%	8%	8%	56	808	754	789
10		ग्वालियर GWALIOR	0%	100%	0%	0%	2	802	751	780
11		इंदौर INDORE	0%	100%	0%	0%	0	797	748	768
12		जबलपुर JABALPUR	0%	100%	0%	0%	1	803	755	781
13		कोरडी KORADI	0%	100%	0%	0%	0	793	752	775
14		पुणे PUNE	0%	100%	0%	0%	0	800	734	778
15		रायगढ़ पुलिंग RAIGARH POOLING	0%	100%	0%	0%	0	798	769	785
16		रायपुर पुलिंग RAIPUR POOLING	0%	100%	0%	0%	0	793	759	777
17		सासन SASAN	0%	100%	0%	0%	0	789	757	771
18		सतना SATNA	0%	100%	0%	0%	0	795	755	774
19		सिवनी SEONI	0%	100%	0%	0%	0	801	760	782
20		सीपट SIPAT	0%	100%	0%	0%	0	789	762	775
21		सोलापुर SOLAPUR	0%	97%	3%	3%	21	807	750	787
22		तामना TAMNAR	0%	100%	0%	0%	0	798	771	785
23		तिरुवा TIRORA	0%	100%	0%	0%	0	785	752	769
24		वडोदरा VADODARA	0%	100%	0%	0%	1	802	762	782
25		विंध्याचल पुलिंग VINHYACHAL PS	0%	100%	0%	0%	0	788	758	772
26		वर्धा WARDHA	0%	100%	0%	0%	2	806	751	782
27		भुज BHUJ	0%	100%	0%	0%	0	790	745	771
28		बनसकला BANASKANTHA	0%	100%	0%	0%	0	798	759	779
29		गदरवाड़ा GADARWARA	0%	100%	0%	0%	1	801	764	783
30		पडुचे PADGHE	0%	88%	12%	12%	87	810	749	789
31	परली PARLI	0%	94%	6%	6%	43	805	761	789	
32	राजनन्दगांव RAJNANDGAON	0%	100%	0%	0%	0	800	770	787	
33	रवरी WARORA	0%	100%	0%	0%	0	797	761	782	
34	खण्डवा KHANDWA	0%	100%	0%	0%	0	788	747	768	
1	दक्षिणी क्षेत्र SR	कर्नूल KURNOOL	0%	99%	1%	1%	5	803	749	781
2		नेल्लूर पुलिंग NELLORE PS	0%	100%	0%	0%	0	800	749	779
3		रायचूर RAICHUR	0%	99%	1%	1%	6	803	747	783
4		निजामाबाद NIZAMABAD	0%	94%	6%	6%	45	812	749	784
5		श्रीकाकुलम SRIKAKULAM	0%	94%	6%	6%	46	813	749	784
6		तिरुवलम THIRUVALEM	0%	99%	1%	1%	6	803	743	779
7		कडपा CUDDAPAH	0%	86%	14%	14%	101	815	751	790
8		महेश्वरम MAHESWARAM	0%	99%	1%	1%	4	806	743	774
9		वेमगिरी VEMAGIRI	0%	86%	14%	14%	101	813	763	793
10		चिल्कलुरिपेटा CHILKALURIPETA	0%	94%	6%	6%	43	817	758	788
1	पूर्वोत्तर क्षेत्र NER	अजरा AZARA (400 kV)	0%	100%	0%	0%	0	413	401	407
2		बालीपारा BALIPARA (400 kV)	0%	100%	0%	0%	0	413	402	406
3		बिस्वनाथ चरियालि BISWANATH CHARIALI (400 kV)	0%	100%	0%	0%	0	418	393	407
4		बोंगागाँव BONGAIGAON (400 kV)	0%	100%	0%	0%	0	418	396	407
5		बोंगागाँव टीपीएस BONGAIGAON TPS (400 kV)	0%	100%	0%	0%	0	420	399	410
6		बर्निहाट BYRNHAT (400 kV)	0%	100%	0%	0%	0	413	401	407
7		पालाताना PALATANANA (400 kV)	0%	100%	0%	0%	0	420	386	411
8		रंगानदी RANGANADI (400 kV)	0%	96%	4%	4%	25	425	399	413
9		मिसा MISA (400 kV)	0%	100%	0%	0%	2	420	392	407
10		सिलचर SILCHAR (400 kV)	2%	98%	0%	2%	14	417	350	404
11		इम्फाल IMPHAL (400 kV)	0%	100%	0%	0%	1	421	388	407
12		कामेंग KAMENG (400 kV)	0%	100%	0%	0%	0	420	386	407

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

