

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

Date: 04-Jul-2019

**System Reliability Indices Report for the month of June 2019**

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

S.No.	Corridor	Number of Blocks Violated	Number of Hours Violated	%Violation
1	WR-NR	20	5.00	0.69
2	ER-NR	0	0.00	0.00
3	Import of NR	16	4.00	0.56
4	NEW-SR	11	2.75	0.38
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	10	2.50	0.35
2	ER-NR	0	0.00	0.00
3	Import of NR	1	0.25	0.03
4	NEW-SR	4	1.00	0.14
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 2019

Date of reporting:

04-Jul-19

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-19	14.13	63.08	22.79	36.92	8:51	50.00
02-Jun-19	4.58	56.03	39.39	43.97	10:33	50.03
03-Jun-19	2.36	65.45	32.19	34.55	8:17	50.03
04-Jun-19	21.47	63.90	14.63	36.10	8:39	49.96
05-Jun-19	28.92	67.38	3.69	32.62	7:49	49.94
06-Jun-19	11.82	78.30	9.88	21.70	5:12	49.98
07-Jun-19	13.25	79.10	7.65	20.90	5:01	49.97
08-Jun-19	20.35	75.49	4.17	24.51	5:53	49.96
09-Jun-19	11.16	77.58	11.26	22.42	5:22	49.98
10-Jun-19	20.56	71.34	8.10	28.66	6:52	49.96
11-Jun-19	13.17	64.32	22.51	35.68	8:33	49.99
12-Jun-19	6.35	60.97	32.67	39.03	9:22	50.02
13-Jun-19	4.92	61.28	33.80	38.72	9:17	50.02
14-Jun-19	12.14	71.39	16.47	28.61	6:52	49.99
15-Jun-19	2.74	60.98	36.27	39.02	9:21	50.03
16-Jun-19	0.76	69.50	29.73	30.50	7:19	50.03
17-Jun-19	5.75	64.83	29.42	35.17	8:26	50.02
18-Jun-19	20.43	65.86	13.72	34.14	8:11	49.97
19-Jun-19	8.38	80.72	10.90	19.28	4:37	49.99
20-Jun-19	12.75	70.50	16.75	29.50	7:04	49.99
21-Jun-19	5.19	82.55	12.27	17.45	4:11	49.99
22-Jun-19	10.00	74.77	15.23	25.23	6:03	49.99
23-Jun-19	10.08	69.53	20.39	30.47	7:18	49.99
24-Jun-19	5.73	78.02	16.25	21.98	5:16	50.00
25-Jun-19	8.40	76.12	15.47	23.88	5:43	50.00
26-Jun-19	0.84	68.24	30.91	31.76	7:37	50.03
27-Jun-19	1.93	74.39	23.68	25.61	6:08	50.02
28-Jun-19	0.38	75.31	24.31	24.69	5:55	50.02
29-Jun-19	12.81	76.88	10.31	23.13	5:33	49.98
30-Jun-19	4.75	66.32	28.94	33.68	8:05	50.01
<b>June 2019</b>						
	<b>9.87</b>	<b>70.34</b>	<b>19.79</b>	<b>29.66</b>	<b>0.30</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 - जून 2019

VOLTAGE PROFILE - June 2019

Date of reporting: 04-Jul-19

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.वी.) Maximum(kV)	निम्नतम(कि.वी.) Minimum(kV)	औसत (कि.वी.) Average(kV)
1	पूर्वी क्षेत्र ER	अंगल ANGUL	0%	100%	0%	0%	0	798	767	782
2		गया GAYA	0%	100%	0%	0%	0	786	736	765
3		झारसुगुडा JHARSUGUDA	0%	87%	13%	13%	95	803	779	795
4		रांची RAUCHI	0%	100%	0%	0%	0	781	764	780
5		सासाराम SASARAM	0%	100%	0%	0%	0	786	742	766
6		दार्जिलिंग DARJILING	0%	100%	0%	0%	0	799	772	786
1	उत्तरी क्षेत्र NR	आगरा AGRA	0%	100%	0%	0%	1	806	750	779
2		आगरा (फतेहबाद) AGRA (FATEHABAD)	0%	98%	2%	2%	13	808	759	783
3		अनपरा सी ANPARA-C	0%	100%	0%	0%	0	788	761	775
4		अनपरा डी ANPARA-D	0%	100%	0%	0%	0	784	759	772
5		अंता ANTA	0%	100%	0%	0%	0	798	761	779
6		बलिया BALLIA	0%	100%	0%	0%	0	796	744	772
7		बारा BARA	0%	100%	0%	0%	0	787	764	775
8		भिवानी BHIWANI	0%	100%	0%	0%	1	806	754	778
9		बरेली BAREILLY	0%	100%	0%	0%	0	760	747	758
10		फतेहपुर FATEHPUR	0%	100%	0%	0%	0	793	743	771
11		ग्रेटर नोएडा GREATER NOIDA	0%	100%	0%	0%	0	801	748	777
12		झाड़कंडा JHATIKARA	0%	100%	0%	0%	1	804	744	774
13		कानपुर जीआइएस KANPUR GIS	0%	100%	0%	0%	0	797	752	774
14		लखनऊ LUCKNOW	0%	100%	0%	0%	1	801	747	775
15		ललितपुर LALITPUR	0%	100%	0%	0%	0	791	756	774
16		मेरठ MERUT	0%	100%	0%	0%	1	804	750	777
17		मोहा MOGA	0%	100%	0%	0%	0	793	747	771
18		फाजी PHAGI	0%	100%	0%	0%	1	803	752	779
19		वाराणसी VARANASI	0%	100%	0%	0%	0	799	752	776
20		उन्नाव UNNAO	0%	100%	0%	0%	0	782	731	758
21		चित्तौड़गढ़ CHITTOORGARH	0%	100%	0%	0%	3	805	759	781
22		अलीगढ़ ALIGARH	0%	100%	0%	0%	0	800	747	776
23		अजमेर AJMER	0%	100%	0%	0%	0	800	749	775
24		हापड़ HAPUR	0%	100%	0%	0%	0	801	743	771
25		मैनपुरी MAINPURI	0%	99%	1%	1%	4	804	758	782
26		उरई ORAI	0%	100%	0%	0%	3	802	758	782
1	पश्चिमी क्षेत्र WR	अकोला AKOLA	0%	100%	0%	0%	0	796	747	775
2		औरंगाबाद AURANGABAD	0%	99%	1%	1%	10	806	765	786
3		भोपाल (बीडीटीएस) BHOPAL (BDTCL)	0%	100%	0%	0%	0	794	751	769
4		बिलासपुर BILASPUR	0%	100%	0%	0%	0	792	768	781
5		बीना BINA	0%	100%	0%	0%	0	797	756	779
6		चम्पा CHAMPA	0%	94%	6%	6%	42	808	778	793
7		धर्मपुर धरम जागर DHARAM JAIGARH	0%	100%	0%	0%	0	797	767	783
8		धुले (बीडीटीएस) DHULE (BDTCL)	0%	100%	0%	0%	0	797	763	781
9		एकतुली EKTUNI	0%	100%	0%	0%	0	797	746	774
10		ग्वालियर GWALIOR	0%	100%	0%	0%	2	801	750	779
11		इंदौर INDORE	0%	100%	0%	0%	0	782	744	765
12		जबलपुर JABALPUR	0%	100%	0%	0%	1	804	765	783
13		कोरडी KORADI	0%	100%	0%	0%	2	781	735	767
14		पुणे PUNE	0%	100%	0%	0%	0	800	744	777
15		रायगड पल्लिग RAIGARH POOLING	0%	97%	3%	3%	22	804	776	792
16		रायपुर पल्लिग RAIPUR POOLING	0%	100%	0%	0%	0	798	761	785
17		सासन SASAN	0%	100%	0%	0%	0	782	759	769
18		सतना SATNA	0%	100%	0%	0%	0	789	755	773
19		सिलोनी SEONI	0%	100%	0%	0%	0	800	771	787
20		सिपाट SIPAT	0%	100%	0%	0%	0	792	769	780
21		सोलापुर SOLAPUR	0%	92%	8%	8%	54	810	767	791
22		तामनार TAMNAR	0%	97%	3%	3%	23	804	778	793
23		तिरुछा TIRORA	0%	100%	0%	0%	0	777	741	763
24		वडोदरा VADODARA	0%	100%	0%	0%	0	796	758	778
25		विंध्याचल पल्लिग VINDHYACHAL PS	0%	100%	0%	0%	0	784	759	771
26		वर्धा WARDHA	0%	99%	1%	1%	11	814	756	789
27		भुज BHUJ	0%	100%	0%	0%	0	792	749	770
28		बनसकांठा BANASKANTHA	0%	99%	1%	1%	5	801	762	778
29		गदरवाड़ा GADARWARA	0%	100%	0%	0%	0	799	765	786
30		पडरु PADRHE	0%	96%	4%	4%	26	808	755	785
31		परली PARLI	0%	92%	8%	8%	60	808	765	791
32		राजनन्दगांव RAJNANDGAON	0%	93%	7%	7%	49	806	765	792
33		वाराणस WARAONA	0%	89%	31%	31%	222	810	765	797
34	कुर्नूल KURNOOL	0%	100%	0%	0%	2	818	749	776	
2	दक्षिणी क्षेत्र SR	नेल्लोर पल्लिग NELLORE PS	0%	100%	0%	0%	2	803	737	776
3		रायचूर RAICHUR	0%	100%	0%	0%	1	802	750	774
4		निजामाबाद NIZAMABAD	0%	85%	15%	15%	109	813	754	791
5		श्रीकाकुलम SRIKAKULAM	0%	83%	17%	17%	123	813	755	792
6		तिरुवल्लूर THIRUVALEM	0%	97%	3%	3%	25	809	740	780
7		कुड्डापहा CUDDAPAH	0%	86%	14%	14%	98	818	756	789
8		महेश्वरम MAHESWARAM	0%	97%	3%	3%	20	806	751	779
9		वेमगिरी VEMAGIRI	0%	100%	0%	0%	0	784	747	769
1		पूर्वोत्तर क्षेत्र NER	अजारा AZARA (400 kV)	0%	100%	0%	0%	0	411	400
2	बालिपारा BALIPARA (400 kV)		0%	100%	0%	0%	0	417	390	405
3	बिस्वनाथ चरिआलि BISWANATH CHARIALI (400 kV)		0%	100%	0%	0%	0	418	390	405
4	बोंगाईगांव BONGAIGAON (400 kV)		0%	100%	0%	0%	0	409	389	399
5	बोंगाईगांव टीपीएस BONGAIGAON TPS (400 kV)		0%	100%	0%	0%	0	416	396	406
6	बर्निहाट BYRNHAT (400 kV)		0%	100%	0%	0%	0	411	400	406
7	पालाताना PALATANA (400 kV)		0%	0%	0%	0%	0	421	409	414
8	रानगाडी RANGANADI (400 kV)		0%	86%	14%	14%	99	429	399	414
9	मिसा MISA (400 kV)		0%	100%	0%	0%	0	420	394	408
10	सिलचर SILCHAR (400 kV)		0%	100%	0%	0%	0	420	394	406
11	इम्फाल IMPHAL (400 kV)		0%	100%	0%	0%	0	420	392	408
12	कामेंग KAMENG (400 kV)		0%	100%	0%	0%	0	417	380	402

All listed stations are 765 kV stations unless otherwise mentioned

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

