

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

System Reliability Indices Report for the month of July 2017

Date: 4-Aug-2017

Percentage (%) of times ATC was violated

S.No.	Corridor	Number of Blocks Violated	Number of Hours Violated	%Violation
1	WR-NR	36	9.00	1.21
2	ER-NR	0	0.00	0.00
3	Import of NR	200	50.00	6.72
4	NEW-SR	153	38.25	5.14
5	ER-NER	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	9	2.25	0.30
2	ER-NR	0	0.00	0.00
3	Import of NR	41	10.25	1.38
4	NEW-SR	2	0.50	0.07
4	ER-NER	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.

विद्युत विभव रूपरेखा माह - जुलाई 2017

VOLTAGE PROFILE - JULY 2017

Date of reporting: 04-Aug-17

क्र.स. 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)	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%	799	769	787
2		गया GAYA	0%	100%	0%	0%	802	742	770
3		झारसगडा JHARSUGUDA	0%	93%	7%	7%	812	778	794
4		रांची RANCHI	0%	100%	0%	0%	799	767	785
5		सासाराम SASARAM	0%	100%	0%	0%	795	724	760
1	उत्तरी क्षेत्र NR	आगरा AGRA	0%	100%	0%	0%	803	740	774
2		आगरा (फतेहाबाद) AGRA (FATEHABAD)	0%	100%	0%	0%	760	739	759
3		अनपरा सी ANPARA-C	0%	100%	0%	0%	787	747	765
4		अनपरा डी ANPARA-D	0%	100%	0%	0%	787	749	764
5		अंता ANTA	0%	100%	0%	0%	801	754	778
6		बलिया BALLIA	0%	100%	0%	0%	801	739	770
7		बारा BARA	0%	100%	0%	0%	760	736	758
8		भिवानी BHIWANI	0%	99%	1%	1%	806	752	778
9		बरेली BAREILLY	0%	100%	0%	0%	760	741	759
10		फतेहपुर FATEHPUR	0%	100%	0%	0%	791	733	762
11		ग्रेटर नोएडा GREATER NOIDA	0%	99%	1%	1%	806	751	777
12		झाटिका JHATIKARA	0%	100%	0%	0%	806	750	777
13		कानपुर जीआईएस KANPUR GIS	0%	100%	0%	0%	760	750	760
14		लखनऊ LUCKNOW	0%	100%	0%	0%	805	740	773
15		ललितपुर LALITPUR	0%	100%	0%	0%	790	752	774
16		मेरठ MEERUT	0%	100%	0%	0%	806	745	776
17		मोगा MOGA	0%	100%	0%	0%	794	749	769
18		फागी PHAGI	0%	100%	0%	0%	802	748	778
19		वाराणसी VARANASI	0%	100%	0%	0%	804	747	776
20		उन्नाव UNNAO	0%	100%	0%	0%	789	727	760
1	पश्चिमी क्षेत्र WR	अकोला AKOLA	0%	100%	0%	0%	791	749	776
2		औरंगाबाद AURANGABAD	0%	97%	3%	3%	806	759	787
3		भोपाळ (बीडीटीसीएल) BHOPAL (BDTCL)	0%	100%	0%	0%	791	750	772
4		बिलासपुर BILASPUR	0%	100%	0%	0%	776	758	767
5		बीना BINA	0%	100%	0%	0%	798	756	777
6		चाया CHAMPA	0%	83%	17%	17%	807	785	798
7		धर्मजयगढ़ DHARAMJAIGARH	0%	100%	0%	0%	795	765	781
8		धुले (बीडीटीसीएल) DHULE (BDTCL)	0%	99%	1%	1%	804	750	785
9		एकतुनी EKTUNI	0%	100%	0%	0%	793	745	776
10		ग्वालियर GWALIOR	0%	100%	0%	0%	802	742	777
11		इंदौर INDORE	0%	100%	0%	0%	794	752	774
12		जबलपुर JABALPUR	0%	100%	0%	0%	804	755	781
13		कोरडी KORADI	0%	100%	0%	0%	779	750	769
14		पुणे PUNE	0%	100%	0%	0%	800	739	770
15		रायगढ़ पुलिंग RAIGARH POOLING	0%	94%	6%	6%	804	785	794
16		रायपुर पुलिंग RAIPUR POOLING	0%	96%	4%	4%	802	772	789
17		सासन SASAN	0%	100%	0%	0%	780	752	764
18		सतना SATNA	0%	100%	0%	0%	787	746	766
19		सिवनी SEONI	0%	100%	0%	0%	796	760	781
20		सोपट SIPAT	0%	100%	0%	0%	773	756	765
21		सोलापुर SOLAPUR	0%	91%	9%	9%	809	759	792
22		तामनार TAMNAR	0%	98%	2%	2%	805	785	794
23		तिरोडा TIRODA	0%	100%	0%	0%	773	751	764
24		वडोदरा VADODARA	0%	99%	1%	1%	804	763	785
25		विंध्याचल पुलिंग VINDHYACHAL PS	0%	100%	0%	0%	781	751	766
26		वर्धा WARDHA	0%	99%	1%	1%	804	764	787
1	दक्षिणी क्षेत्र SR	कर्नूल KURNOOL	0%	97%	3%	3%	808	756	787
2		नेल्लूर पुलिंग NELLORE PS	0%	97%	3%	3%	807	758	787
3		रायचूर RAICHUR	0%	94%	6%	6%	810	763	790
4		निज़ामाबाद NIZAMABAD	0%	100%	0%	0%	806	752	776
5		श्रीकाकुलम SRIKAKULAM	0%	99%	1%	1%	806	754	776
6		तिरुवल्लम THIRUVALEM	0%	67%	33%	33%	819	768	796
1	पूर्वोत्तरी क्षेत्र NER	अजारा AZARA (400 kV)	0%	100%	0%	0%	411	400	406
2		बालिपारा BALIPARA (400 kV)	0%	99%	1%	1%	431	351	405
3		बोंगाईगाव BONGAIGAON (400 kV)	0%	100%	0%	0%	413	386	400
4		बोंगाईगाव टीपीएस BONGAIGAON TPS (400 kV)	0%	100%	0%	0%	423	395	409
5		बर्निहत BYRNHAT (400 kV)	0%	100%	0%	0%	411	400	406
6		पालाटाना PALATANA (400 kV)	0%	96%	4%	4%	422	413	418
7		मिसा MISA (400 kV)	0%	98%	2%	2%	426	397	411
8		सिलचर SILCHAR (400 kV)	0%	100%	0%	0%	417	395	409

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

FREQUENCY DEVIATION INDEX FOR JULY 2017

Date of reporting: 04-Aug-17

Date	Percentage of time frequency is			Freq Deviation Index* (FDI)	Average Frequency (Hz)
	<49.9 Hz	49.9 - 50.05 Hz	>50.05 Hz		
01-Jul-17	3.19	83.97	12.84	16.03	50.00
02-Jul-17	4.42	67.97	27.60	32.03	50.02
03-Jul-17	13.83	74.57	11.60	25.43	49.98
04-Jul-17	5.24	75.74	19.02	24.26	50.00
05-Jul-17	5.24	75.76	18.99	24.24	50.00
06-Jul-17	3.76	68.34	27.89	31.66	50.01
07-Jul-17	9.46	79.40	11.15	20.60	49.98
08-Jul-17	16.42	76.47	7.11	23.53	49.96
09-Jul-17	2.41	82.51	15.08	17.49	50.00
10-Jul-17	4.97	78.94	16.10	21.06	50.00
11-Jul-17	5.64	72.06	22.30	27.94	50.01
12-Jul-17	4.77	79.12	16.11	20.88	49.99
13-Jul-17	4.57	78.74	16.69	21.26	50.00
14-Jul-17	3.07	74.17	22.77	25.83	50.01
15-Jul-17	2.73	84.64	12.63	15.36	49.99
16-Jul-17	3.41	80.78	15.81	19.22	50.00
17-Jul-17	2.67	87.73	9.59	12.27	49.99
18-Jul-17	11.20	77.36	11.44	22.64	49.98
19-Jul-17	8.39	66.11	25.50	33.89	50.00
20-Jul-17	2.64	74.51	22.85	25.49	50.01
21-Jul-17	4.39	81.01	14.61	18.99	50.00
22-Jul-17	1.76	73.33	24.91	26.67	50.02
23-Jul-17	1.60	68.31	30.09	31.69	50.02
24-Jul-17	1.76	73.33	24.91	26.67	50.02
25-Jul-17	4.94	74.50	20.56	25.50	50.00
26-Jul-17	8.99	77.36	13.65	22.64	49.99
27-Jul-17	23.53	65.91	10.56	34.09	49.96
28-Jul-17	7.42	77.35	15.23	22.65	49.99
29-Jul-17	15.58	77.09	7.33	22.91	49.96
30-Jul-17	8.01	76.39	15.60	23.61	49.99
31-Jul-17	3.77	79.64	16.59	20.36	50.00
July 2017	6.44	76.23	17.32	23.77	50.00

*FDI is defined as percentage of time for which frequency is outside IEGC band (49.9-50.05 Hz)



Standard Chart

+ x THRISSUR x BVT x NTPC-VINDHYACHAL x BASSI x RANCHI x IMPHAL x BALIPARA

Voltage 1 Angle NTPC-VINDHYACHAL

