

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

Date: 05-Nov-2019

System Reliability Indices Report for the month of October 2019

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	0	0.00	0.00
3	Import of NR	0	0.00	0.00
4	NEW-SR	0	0.00	0.00
5	NER Import	10	2.50	0.34

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	7	1.75	0.24

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 OCTOBER 2019

Date of reporting:

05-Nov-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-Oct-19	4.51	79.54	15.95	20.46	4:54	50.01
02-Oct-19	2.44	76.39	21.17	23.61	5:40	50.01
03-Oct-19	6.09	76.44	17.48	23.56	5:39	50.00
04-Oct-19	4.56	78.40	17.04	21.60	5:11	50.00
05-Oct-19	0.39	76.52	23.09	23.48	5:38	50.02
06-Oct-19	1.57	78.08	20.35	21.92	5:15	50.01
07-Oct-19	0.07	68.68	31.25	31.32	7:31	50.03
08-Oct-19	0.01	61.47	38.52	38.53	9:14	50.04
09-Oct-19	0.42	66.26	33.32	33.74	8:05	50.03
10-Oct-19	4.51	80.95	14.54	19.05	4:34	50.00
11-Oct-19	5.34	79.09	15.58	20.91	5:01	50.00
12-Oct-19	0.54	78.50	20.96	21.50	5:09	50.02
13-Oct-19	0.68	78.59	20.73	21.41	5:08	50.02
14-Oct-19	4.20	82.69	13.11	17.31	4:09	50.00
15-Oct-19	5.12	77.91	16.98	22.09	5:18	50.00
16-Oct-19	1.96	83.21	14.84	16.79	4:01	50.01
17-Oct-19	5.43	78.92	15.65	21.08	5:03	50.00
18-Oct-19	0.87	80.91	18.22	19.09	4:34	50.01
19-Oct-19	3.94	83.98	12.08	16.02	3:50	50.00
20-Oct-19	3.52	79.91	16.57	20.09	4:49	50.01
21-Oct-19	5.66	74.22	20.12	25.78	6:11	50.00
22-Oct-19	2.43	76.47	21.10	23.53	5:38	50.01
23-Oct-19	2.51	77.16	20.32	22.84	5:28	50.01
24-Oct-19	5.94	69.43	24.63	30.57	7:20	50.01
25-Oct-19	4.78	71.61	23.61	28.39	6:48	50.01
26-Oct-19	1.66	73.58	24.77	26.42	6:20	50.02
27-Oct-19	2.58	73.72	23.70	26.28	6:18	50.01
28-Oct-19	3.02	82.27	14.71	17.73	4:15	50.00
29-Oct-19	4.04	76.74	19.22	23.26	5:34	50.00
30-Oct-19	4.59	83.69	11.71	16.31	3:54	49.99
31-Oct-19	5.42	83.08	11.50	16.92	4:03	50.00
October 2019	3.19	77.04	19.77	22.96	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.वी.) Maximum(kV)	निम्नतम(कि.वी.) Minimum(kV)	औसत (कि.वी.) Average(kV)
1	पूर्वी क्षेत्र ER	अंगल ANGUL	0%	100%	0%	0%	0	795	770	784
2		मया GAYA	0%	100%	0%	0%	0	788	756	775
3		झारसगुडा JHARSUGUDA	0%	99%	1%	1%	7	803	779	792
4		रांची RANCHI	0%	100%	0%	0%	0	791	772	782
5		सासाराम SASARAM	0%	100%	0%	0%	0	784	735	762
6		दार्जिलिङ DARJILING	0%	100%	0%	0%	0	792	773	783
1	उत्तरी क्षेत्र NR	आगरा AGRA	0%	100%	0%	0%	0	799	763	784
2		आगरा (फतेहबाद) AGRA (FATEHABAD)	0%	82%	18%	18%	138	812	765	794
3		अनपरा सी ANPARA-C	0%	100%	0%	0%	0	787	757	771
4		अनपरा डी ANPARA-D	0%	100%	0%	0%	0	787	755	769
5		अंता ANTA	0%	100%	0%	0%	0	797	758	781
6		बलिया BALLIA	0%	100%	0%	0%	0	790	752	775
7		बारा BARA	0%	100%	0%	0%	0	791	764	779
8		भिवानी BHIWANI	0%	98%	2%	2%	15	804	761	787
9		बरेली BAREILLY	0%	100%	0%	0%	0	760	734	753
10		फतेहपुर FATEHPUR	0%	100%	0%	0%	0	791	726	765
11		ग्रेटर नोएडा GREATER NOIDA	0%	98%	2%	2%	14	806	767	789
12		झाटिकर JHATIKARA	0%	100%	0%	0%	1	802	731	784
13		कानपुर जीआईएस KANPUR GIS	0%	100%	0%	0%	0	794	753	778
14		लखनऊ LUCKNOW	0%	100%	0%	0%	0	801	759	783
15		ललितपुर LALITPUR	0%	100%	0%	0%	0	794	724	778
16		मेरठ MERUT	0%	99%	1%	1%	11	807	765	784
17		मोहा MOGA	0%	100%	0%	0%	2	805	747	775
18		फागी PHAGI	0%	99%	1%	1%	5	803	761	785
19		वाराणसी VARANASI	0%	100%	0%	0%	0	795	758	780
20		उन्नाव UNNAO	0%	100%	0%	0%	0	785	745	766
21		चित्तौड़गढ़ CHITTOORGARH	0%	99%	1%	1%	10	804	754	782
22		अलीगढ़ ALIGARH	0%	100%	0%	0%	0	799	758	782
23		अजमेर AJMER	0%	99%	1%	1%	6	805	735	778
24		हापड़ HAPUR	0%	100%	0%	0%	0	798	753	781
25		मैनपुरी MAINPURI	0%	100%	0%	0%	0	790	790	790
26		उरई ORAI	0%	99%	1%	1%	5	802	769	788
1	पश्चिमी क्षेत्र WR	अकोला AKOLA	0%	100%	0%	0%	0	801	762	784
2		औरंगाबाद AURANGABAD	0%	100%	0%	0%	2	803	763	785
3		भोपाल (बीडीटीएस) BHOPAL (BDTCL)	0%	100%	0%	0%	0	787	754	772
4		बिलासपुर BILASPUR	0%	100%	0%	0%	0	789	768	780
5		बीना BINA	0%	100%	0%	0%	0	795	764	784
6		चम्पा CHAMPA	0%	100%	0%	0%	1	802	778	791
7		धर्मपुर धरम जागर DHARAM JAIGARH	0%	100%	0%	0%	0	792	765	781
8		धुले (बीडीटीएस) DHULE (BDTCL)	0%	100%	0%	0%	0	792	736	771
9		एकतुली EKTUNI	0%	99%	1%	1%	4	802	758	785
10		ग्वालियर GWALIOR	0%	100%	0%	0%	2	801	763	785
11		इंदौर INDORE	0%	100%	0%	0%	0	781	743	766
12		जबलपुर JABALPUR	0%	100%	0%	0%	0	802	768	787
13		कोरडी KORADI	0%	100%	0%	0%	0	786	759	774
14		पुणे PUNE	0%	100%	0%	0%	0	800	752	785
15		रायगड पुलिंग RAIGARH POOLING	0%	100%	0%	0%	0	799	778	789
16		रायपुर पुलिंग RAIPUR POOLING	0%	100%	0%	0%	0	790	770	780
17		सासन SASAN	0%	100%	0%	0%	0	786	759	773
18		सतना SATNA	0%	100%	0%	0%	0	794	761	779
19		सिलोनी SEONI	0%	100%	0%	0%	0	802	770	787
20		सिपाट SIPAT	0%	100%	0%	0%	0	790	770	781
21		सोलापुर SOLAPUR	0%	92%	8%	8%	56	806	763	790
22		तामनार TAMNAR	0%	100%	0%	0%	0	799	778	789
23		तिरुछा TIROHA	0%	100%	0%	0%	0	781	758	769
24		वडोदरा VADODARA	0%	99%	1%	1%	5	804	760	783
25		विन्ध्यचल पुलिंग VINDHYACHAL PS	0%	100%	0%	0%	0	786	761	774
26		वर्धा WARDHA	0%	100%	0%	0%	2	805	764	785
27		भुज BHUJ	0%	100%	0%	0%	0	785	748	773
28		बनसकांठा BANASKANTHA	0%	100%	0%	0%	0	796	761	781
29		गदरवाड़ा GADARWARA	0%	100%	0%	0%	1	801	771	786
30		पडरुधे PADGHE	0%	92%	8%	8%	56	807	765	788
31	परली PARLI	0%	99%	1%	1%	4	801	769	787	
32	राजनन्दगांव RAJNANDGAON	0%	100%	0%	0%	2	802	765	789	
33	वराणसी VARANASI	0%	100%	0%	0%	0	795	768	786	
1	दक्षिणी क्षेत्र SR	कुरुल KURNOL	0%	100%	0%	0%	0	787	751	777
2		नेल्लोर पुलिंग NELLORE PS	0%	100%	0%	0%	0	790	752	774
3		रायचूर RAICHUR	0%	100%	0%	0%	1	801	758	783
4		निजामाबाद NIZAMABAD	0%	92%	8%	8%	63	812	765	787
5		श्रीकाकुलम SRIKAKULAM	0%	91%	9%	9%	70	811	767	788
6		तिरुवल्लूर THIRUVALLUR	0%	99%	1%	1%	9	806	741	777
7		कुड्डापुडु CUDDAPAH	0%	89%	11%	11%	80	810	761	788
8		महेश्वरम MAHESWARAM	0%	99%	1%	1%	7	806	749	774
9		वेमगिरी VEMAGIRI	0%	100%	0%	0%	0	787	748	772
1	पूर्वोत्तर क्षेत्र NER	अज़ारा AZARA (400 kV)	0%	100%	0%	0%	0	414	400	409
2		बालिपारा BALIPARA (400 kV)	0%	100%	0%	0%	0	420	386	408
3		बिस्वनाथ चरिआलि BISWANATH CHARIALI (400 kV)	0%	100%	0%	0%	0	421	382	408
4		बोंगागाँव BONGAIGAON (400 kV)	0%	100%	0%	0%	0	414	389	405
5		बोंगागाँव टीपीएस BONGAIGAON TPS (400 kV)	0%	100%	0%	0%	1	420	397	412
6		बर्नihat BYRNihat (400 kV)	0%	100%	0%	0%	0	414	400	409
7		पालाताना PALATANA (400 kV)	0%	100%	0%	0%	0	421	399	413
8		रानगाँव RANGANADI (400 kV)	0%	92%	8%	8%	60	425	372	414
9		मिसा MISA (400 kV)	0%	100%	0%	0%	3	422	388	410
10		सिलचर SILCHAR (400 kV)	0%	100%	0%	0%	3	419	352	409
11		इम्फाल IMPHAL (400 kV)	0%	100%	0%	0%	3	422	392	409
12		कामेंग KAMENG (400 kV)	0%	100%	0%	0%	1	421	397	406

All listed stations are 765 kV stations unless otherwise mentioned

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

- GAJUWAKA_BUS3
- THRISSUR
- MPPTCL_BINA
- SLPR4
- 400KV_KALWA
- AGRA_BUS1
- HISAR_BUS1
- JALANDHAR_BUS1
- Biharshariff(+V)
- JAMSHEDPUR
- AGARTALA
- BONGAIGAON
- IMPHAL
- VINDP41_PG

Voltage 1 Angle | VINDP41_PG

