

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

System Reliability Indices Report for the month of November 2018

Date: 5-Dec-2018

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	40	10.00	1.39
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	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	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 NOVEMBER 2018

Date of reporting:

05-Dec-18

Date	Percentage of time frequency is			Freq Deviation Index* (FDI)	No. of hours frequency is outside 49.9-50.05 Hz	Average Frequency (Hz)
	<49.9 Hz	49.9 - 50.05 Hz	>50.05 Hz			
01-Nov-18	8.67	81.89	9.44	18.11	4:20	49.98
02-Nov-18	11.20	83.56	5.24	16.44	3:56	49.97
03-Nov-18	20.22	75.07	4.71	24.93	5:59	49.95
04-Nov-18	12.85	82.05	5.10	17.95	4:18	49.96
05-Nov-18	15.47	79.38	5.15	20.63	4:57	49.96
06-Nov-18	1.57	85.78	12.65	14.22	3:24	50.00
07-Nov-18	0.32	80.06	19.62	19.94	4:47	50.01
08-Nov-18	3.19	85.27	11.54	14.73	3:32	49.99
09-Nov-18	7.79	83.53	8.68	16.47	3:57	49.97
10-Nov-18	11.28	81.91	6.81	18.09	4:20	49.97
11-Nov-18	12.05	80.02	7.93	19.98	4:47	49.97
12-Nov-18	12.42	74.81	12.77	25.19	6:02	49.97
13-Nov-18	9.77	80.19	10.05	19.81	4:45	49.98
14-Nov-18	16.15	76.96	6.90	23.04	5:31	49.96
15-Nov-18	17.12	75.15	7.73	24.85	5:57	49.96
16-Nov-18	7.26	84.36	8.38	15.64	3:45	49.98
17-Nov-18	12.67	81.98	5.35	18.02	4:19	49.96
18-Nov-18	10.97	79.85	9.18	20.15	4:50	49.97
19-Nov-18	12.53	79.19	8.28	20.81	4:59	49.97
20-Nov-18	3.83	80.79	15.38	19.21	4:36	50.00
21-Nov-18	6.19	86.67	7.14	13.33	3:12	49.98
22-Nov-18	2.62	78.29	19.10	21.71	5:12	50.00
23-Nov-18	15.10	77.45	7.44	22.55	5:24	49.97
24-Nov-18	16.04	80.38	3.58	19.62	4:42	49.95
25-Nov-18	3.48	87.72	8.80	12.28	2:56	49.99
26-Nov-18	8.77	80.23	11.00	19.77	4:44	49.99
27-Nov-18	12.96	76.05	10.98	23.95	5:44	49.97
28-Nov-18	4.19	81.91	13.90	18.09	4:20	49.99
29-Nov-18	27.35	65.72	6.93	34.28	8:13	49.95
30-Nov-18	23.52	69.97	6.52	30.03	7:12	49.95
November 2018	10.92	79.87	9.21	20.13	0.20	49.97

*FDI is defined as percentage of time for which frequency is outside IEGC band (49.9-50.05 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	अंगुल ANGUL	0%	100%	0%	0%	0	798	752	774
2		गया GAYA	0%	100%	0%	0%	0	783	753	770
3		झारसूगुडा JHARSUGUDA	0%	92%	8%	8%	56	807	778	793
4		रंची RANCHI	0%	100%	0%	0%	0	790	765	780
5		सासाराम SASARAM	0%	100%	0%	0%	0	787	737	757
1	उत्तरी क्षेत्र NR	आगरा AGRA	0%	100%	0%	0%	0	801	736	784
2		आगरा (फतेहाबाद) AGRA (FATEHABAD)	0%	95%	5%	5%	37	810	736	782
3		अनपरा सी ANPARA-C	0%	100%	0%	0%	0	777	758	766
4		अनपरा डी ANPARA-D	0%	100%	0%	0%	0	775	757	765
5		अंता ANTA	0%	100%	0%	0%	1	800	744	782
6		बलिया BALLIA	0%	100%	0%	0%	0	786	752	772
7		बारा BARA	0%	100%	0%	0%	0	797	761	780
7		भिवानी BHIWANI	0%	91%	9%	9%	67	809	761	790
8		बरेली BAREILLY	0%	100%	0%	0%	0	759	759	759
9		फतेहपुर FATEHPUR	0%	100%	0%	0%	0	789	744	763
10		ग्रेटर नोएडा GREATER NOIDA	0%	84%	16%	16%	114	809	767	793
11		झाटिकरा JHATIKARA	0%	92%	8%	8%	58	808	759	789
12		कानपुर जेआइएस KANPUR GIS	0%	100%	0%	0%	0	760	758	760
13		लखनऊ LUCKNOW	0%	100%	0%	0%	0	797	759	780
14		ललितपुर LALITPUR	0%	100%	0%	0%	2	801	720	764
15		मेरठ MEERUT	0%	93%	7%	7%	49	812	767	790
16		मोगा MOGA	0%	100%	0%	0%	1	807	753	778
17		फागी PHAGI	0%	99%	1%	1%	7	805	756	784
18		वाराणसी VARANASI	0%	100%	0%	0%	0	790	761	777
19	उन्नाव UNNAO	0%	100%	0%	0%	0	786	743	761	
1	पश्चिमी क्षेत्र WR	अकोला AKOLA	0%	100%	0%	0%	0	791	753	773
2		औरंगाबाद AURANGABAD	0%	100%	0%	0%	1	803	759	782
3		भोपाल (बीडीटीसीएल) BHOPAL (BDTCL)	0%	100%	0%	0%	0	793	748	773
4		बिलासपुर BILASPUR	0%	100%	0%	0%	0	780	760	770
5		बीना BINA	0%	100%	0%	0%	0	796	759	779
6		चांपा CHAMPA	0%	93%	7%	7%	49	808	779	794
7		धर्मजयगढ़ DHARAMJAIGARH	0%	100%	0%	0%	0	795	767	780
8		धुले (बीडीटीसीएल) DHULE (BDTCL)	0%	100%	0%	0%	0	801	743	776
9		एकतुनी EKTUNI	0%	100%	0%	0%	0	788	749	773
10		खालियर GWALIOR	0%	100%	0%	0%	0	802	758	784
11		इंदौर INDORE	0%	100%	0%	0%	0	796	749	772
12		जबलपुर JABALPUR	0%	99%	1%	1%	7	807	761	787
13		कोरडी KORADI	0%	100%	0%	0%	0	775	748	765
14		पुणे PUNE	0%	100%	0%	0%	0	800	747	779
15		रायगढ़ पूलिंग RAIGARH POOLING	0%	97%	3%	3%	21	806	779	792
16		रायपुर पूलिंग RAIPUR POOLING	0%	99%	1%	1%	7	800	769	787
17		सासन SASAN	0%	100%	0%	0%	0	779	753	764
18		सतना SATNA	0%	100%	0%	0%	0	785	744	766
19		सिवनी SEONI	0%	100%	0%	0%	0	799	764	782
20		सीपत SIPAT	0%	100%	0%	0%	0	778	760	769
21		सोलापुर SOLAPUR	0%	93%	7%	7%	52	807	765	791
22		तामनार TAMNAR	0%	98%	2%	2%	11	804	780	792
23		तिरुंडा TIRORA	0%	100%	0%	0%	0	768	748	760
24		वडोदरा VADODARA	0%	100%	0%	0%	0	801	754	780
25		विंध्याचल पूलिंग VINHYACHAL PS	0%	100%	0%	0%	0	779	755	765
26		वर्धा WARDHA	0%	100%	0%	0%	3	804	764	787
1	दक्षिणी क्षेत्र SR	कन्नूल KURNOOL	0%	100%	0%	0%	2	804	756	780
2		नेल्लूर पूलिंग NELLORE PS	0%	100%	0%	0%	0	798	756	780
3		रायचूर RAICHUR	0%	100%	0%	0%	1	803	763	782
4		निज़ामाबाद NIZAMABAD	0%	82%	18%	18%	132	814	764	792
5		श्रीकाकुलम SRIKAKULAM	0%	98%	2%	2%	14	806	766	788
6	तिरुवलम THIRUVALEM	0%	92%	8%	8%	55	812	762	787	
1	पूर्वोत्तर क्षेत्र NER	अज़ारा AZARA (400 kV)	0%	100%	0%	0%	0	411	398	407
2		बालिपारा BALIPARA (400 kV)	0%	100%	0%	0%	1	423	393	408
3		बिस्वनाथ चरिआल BISWANATH CHARIALI (400 kV)	0%	100%	0%	0%	0	422	390	407
4		बोंगाईगाव BONGAIGAON (400 kV)	0%	100%	0%	0%	0	415	392	406
5		बोंगाईगाव टीपीएस BONGAIGAON TPS (400 kV)	0%	99%	1%	1%	6	421	399	411
6		बर्निहाट BYRNIHAT (400 kV)	0%	100%	0%	0%	0	411	398	407
7		पालाटाना PALATANA (400 kV)	0%	100%	0%	0%	0	417	406	413
8		रंगानदी RANGANADI (400 kV)	0%	100%	0%	0%	0	410	404	409
9		मीसा MISA (400 kV)	0%	95%	5%	5%	35	425	398	413
10		सिलचर SILCHAR (400 kV)	0%	100%	0%	0%	0	415	396	407

All listed stations are 765 kV stations unless otherwise mentioned

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

