

POWER SYSTEM OPERATION CORPORATION LIMITED
NATIONAL LOAD DESPATCH CENTRE
NEW DELHI

System Reliability Indices Report for the month of September 2018

Date: 5-Oct-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	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	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.

विद्युत विभव रूपरेखा माह – सितंबर 2018

VOLTAGE PROFILE - SEPTEMBER 2018

Date of reporting: 05-Oct-18

क्र.सं. 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	796	767	781
2		गया GAYA	0%	100%	0%	0%	0	784	743	766
3		झारसगुडा JHARSUGUDA	0%	95%	5%	5%	37	805	778	793
4		रांची RANCHI	0%	100%	0%	0%	0	791	765	779
5		सासाराम SASARAM	0%	100%	0%	0%	0	794	727	762
1	उत्तरी क्षेत्र NR	आगरा AGRA	0%	100%	0%	0%	0	799	755	779
2		आगरा (फतेहबाद) AGRA (FATEHABAD)	0%	98%	2%	2%	16	809	738	780
3		अनपरा सी ANPARA-C	0%	100%	0%	0%	0	788	755	770
4		अनपरा डी ANPARA-D	0%	100%	0%	0%	0	786	754	768
5		अंता ANTA	0%	100%	0%	0%	0	798	763	783
6		बलिया BALLIA	0%	100%	0%	0%	0	788	741	768
7		भिवानी BHIWANI	0%	98%	2%	2%	15	805	755	783
8		बरेली BAREILLY	0%	100%	0%	0%	0	760	747	758
9		फतेहपुर FATEHPUR	0%	100%	0%	0%	0	787	731	761
10		ग्रेटर नोएडा GREATER NOIDA	0%	98%	2%	2%	12	806	757	783
11		झटिकर JHATIKARA	0%	100%	0%	0%	1	802	750	777
12		कानपुर जॉइंटिंग KANPUR GIS	0%	100%	0%	0%	0	760	738	759
13		लखनऊ LUCKNOW	0%	100%	0%	0%	0	792	745	773
14		ललितपुर LALITPUR	0%	100%	0%	0%	2	809	721	766
15		मेरठ MEERUT	0%	97%	3%	3%	24	808	758	784
16		मोगा MOGA	0%	100%	0%	0%	0	800	738	772
17		फागी PHAGI	0%	99%	1%	1%	6	804	757	784
18		वाराणसी VARANASI	0%	100%	0%	0%	0	791	747	773
19		उन्नाव UNNAO	0%	100%	0%	0%	0	782	730	758
1	पश्चिमी क्षेत्र WR	अकोला AKOLA	0%	100%	0%	0%	0	796	751	774
2		औरंगाबाद AURANGABAD	0%	100%	0%	0%	0	802	751	780
3		भोपाल (बीडीटीसीएल) BHOPAL (BDTCL)	0%	100%	0%	0%	0	788	751	770
4		बिलासपुर BILASPUR	0%	100%	0%	0%	0	778	754	769
5		बीना BINA	0%	100%	0%	0%	0	798	761	777
6		चापा CHAMPA	0%	94%	6%	6%	43	806	774	794
7		धर्मजयगढ़ DHARAMJAIGARH	0%	100%	0%	0%	0	790	762	778
8		धुले (बीडीटीसीएल) DHULE (BDTCL)	0%	100%	0%	0%	0	795	735	775
9		एकतुनी EKTUNI	0%	100%	0%	0%	0	792	743	771
10		ग्वालियर GWALIOR	0%	100%	0%	0%	2	803	759	780
11		इंदौर INDORE	0%	100%	0%	0%	0	789	751	772
12		जबलपुर JABALPUR	0%	100%	0%	0%	1	802	767	784
13		कोरडी KORADI	0%	100%	0%	0%	0	783	751	767
14		पुणे PUNE	0%	100%	0%	0%	0	800	731	775
15		रायगढ़ पुलिंग RAIGARH POOLING	0%	91%	9%	9%	67	900	780	794
16		रायपुर पुलिंग RAIPUR POOLING	0%	100%	0%	0%	0	798	773	787
17		सासन SASAN	0%	100%	0%	0%	0	782	754	763
18		सतना SATNA	0%	100%	0%	0%	0	791	749	765
19		शिवनी SEONI	0%	100%	0%	0%	0	797	763	781
20		सीपट SIPAT	0%	100%	0%	0%	0	776	753	768
21		सोलापुर SOLAPUR	0%	97%	3%	3%	19	806	758	787
22		तामनार TAMNAR	0%	94%	6%	6%	45	805	781	794
23		तिरोडा TIRORA	0%	100%	0%	0%	0	773	751	762
24		वडोदरा VADODARA	0%	100%	0%	0%	0	797	751	776
25		विन्ध्यवाचल पुलिंग VINDHYACHAL PS	0%	100%	0%	0%	0	782	754	764
26		वर्धा WARDHA	0%	100%	0%	0%	1	802	759	785
1	दक्षिणी क्षेत्र SR	कन्नड KURNOOL	0%	97%	3%	3%	18	809	760	784
2		नेल्लूर पुलिंग NELLORE PS	0%	98%	2%	2%	14	805	765	784
3		रायचूर RAICHUR	0%	99%	1%	1%	7	805	762	785
4		निजामाबाद NIZAMABAD	0%	96%	4%	4%	26	804	751	786
5		श्रीकाकुलम SRIKAKULAM	0%	95%	5%	5%	33	806	753	786
6		तिरुवल्लूर THIRUVALLEM	0%	81%	19%	19%	138	817	750	791
1	पूर्वोत्तरी क्षेत्र NER	अजारा AZARA (400 kV)	0%	100%	0%	0%	0	410	395	406
2		बालिपारा BALIPARA (400 kV)	0%	100%	0%	0%	3	425	372	410
3		बिस्वनाथ चरिआलि BISWANATH CHARIALI (400 kV)	0%	100%	0%	0%	3	427	368	408
4		बोंगाईगाव BONGAIGAON (400 kV)	0%	100%	0%	0%	0	410	382	401
5		बोंगाईगाव टीपीएस BONGAIGAON TPS (400 kV)	0%	100%	0%	0%	0	419	387	408
6		बर्निहाट BYRNIHAT (400 kV)	0%	100%	0%	0%	0	410	395	406
7		पालाटाना PALATANA (400 kV)	0%	100%	0%	0%	0	419	400	411
8		रंगानादी RANGANADI (400 kV)	0%	100%	0%	0%	0	421	395	410
9		मीसा MISA (400 kV)	0%	97%	3%	3%	25	428	380	413
10		सिलचर SILCHAR (400 kV)	0%	100%	0%	0%	0	418	389	406

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

FREQUENCY DEVIATION INDEX FOR SEPTEMBER 2018

Date of reporting:

05-Oct-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-Sep-18	3.55	88.83	7.62	11.17	2:40	49.99
02-Sep-18	0.74	82.77	16.49	17.23	4:08	50.01
03-Sep-18	5.88	89.20	4.92	10.80	2:35	49.98
04-Sep-18	8.95	82.93	8.13	17.07	4:05	49.99
05-Sep-18	12.62	83.85	3.53	16.15	3:52	49.96
06-Sep-18	7.49	85.47	7.04	14.53	3:29	49.98
07-Sep-18	10.83	83.33	5.83	16.67	4:00	49.97
08-Sep-18	9.11	86.37	4.53	13.63	3:16	49.97
09-Sep-18	18.82	78.85	2.33	21.15	5:04	49.95
10-Sep-18	23.92	73.44	2.64	26.56	6:22	49.95
11-Sep-18	11.50	84.05	4.44	15.95	3:49	49.97
12-Sep-18	19.63	76.42	3.95	23.58	5:39	49.95
13-Sep-18	16.05	78.23	5.72	21.77	5:13	49.96
14-Sep-18	18.51	76.35	5.14	23.65	5:40	49.96
15-Sep-18	42.25	55.24	2.51	44.76	10:44	49.91
16-Sep-18	27.42	69.53	3.06	30.47	7:18	49.93
17-Sep-18	5.60	85.15	9.25	14.85	3:33	49.99
18-Sep-18	5.17	87.04	7.79	12.96	3:06	49.99
19-Sep-18	23.25	72.21	4.54	27.79	6:40	49.95
20-Sep-18	5.47	86.98	7.55	13.02	3:07	49.98
21-Sep-18	2.22	86.33	11.45	13.67	3:16	50.00
22-Sep-18	5.32	85.29	9.39	14.71	3:31	49.99
23-Sep-18	4.32	82.89	12.79	17.11	4:06	50.00
24-Sep-18	20.57	74.81	4.62	25.19	6:02	49.95
25-Sep-18	13.34	76.78	9.87	23.22	5:34	49.98
26-Sep-18	6.59	82.45	10.96	17.55	4:12	49.99
27-Sep-18	13.74	74.41	11.85	25.59	6:08	49.97
28-Sep-18	17.82	78.98	3.19	21.02	5:02	49.95
29-Sep-18	16.66	79.87	3.47	20.13	4:49	49.96
30-Sep-18	18.96	78.56	2.48	21.44	5:08	49.95
September 2018	13.21	80.22	6.57	19.78	142:24	49.97

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

